

**Council Meeting: July 16, 2013****SUBJECT: Award of Contract for a Feasibility Study and Final Report for Establishing a Community Animal Farm and Alternative Recreational Uses at the Sunnyvale Landfill (F13-60)****BACKGROUND**

Approval is requested to award a contract for a feasibility study and final report for establishing a community animal farm and alternative recreation uses at the Sunnyvale Landfill to Geosyntec Consultants of Oakland in the amount of \$98,884. Approval is also requested for a 10% contract contingency in the amount \$9,888.

DISCUSSION

In July 2009, in the *Consideration of Parks of the Future Study* (RTC No. 09-183), Council directed the Departments of Community Services and Public Works to develop a long-term plan for the recreational use of the West Hill, Recycle Hill and South Hill portions of the Sunnyvale Landfill. In February 2013, as part of the City Council Study Issue process, Council also directed staff to examine the feasibility of allowing Animal Assisted Happiness (AAH), a 501(c)(3) non-profit organization, to operate an animal farm at the Sunnyvale Landfill.

The purpose of the study is to determine the feasibility of allowing AAH use of the landfill and provide options and opportunities for other recreation and leisure uses. The study will also conceptually analyze the capacity and design of possible public improvements and infrastructure required. It will analyze possible uses and make recommendations based on constructability, landfill constraints, limitations to any foundation design, modification of existing grades, regulations, conceptual costs, and needed public infrastructure improvements such as access, parking, and utilities. Any proposed uses inconsistent with the current post-closure regulatory restrictions that apply to the landfill would require approvals from the relevant agencies. To ensure that all options are considered, the process includes community outreach which will provide feedback from the public on possible uses for consideration.

Request for Proposals (RFP) specifications were prepared by Public Works, Environmental Services and Purchasing staff. RFP No. F13-60 was directly mailed to several consultants known to offer these services, and was broadcast to other potential proposers through the Onvia DemandStar public procurement network. Nineteen (19) firms requested RFP documents. One responsive proposal was received from Geosyntec Consultants of Oakland.

The Geosyntec proposal was evaluated on expertise, experience, project approach and cost/value by an evaluation team consisting of staff from the Departments of Public Works and Environmental Services. Following an interview with Geosyntec, the evaluation team determined that they amply met all of the evaluation criteria. Subsequent discussions to clarify proposal scope and pricing resulted in a reduction in the proposed fee from \$100,000 to \$98,884.

FISCAL IMPACT

Budgeted funds are available in Capital Project 830500, Landfill Hills Recreation Master Plan, which is funded by the Park Dedication Fund.

PUBLIC CONTACT

Public contact was made by posting the Council agenda on the City's official-notice bulletin board outside City Hall, at the Sunnyvale Senior Center, Community Center and Department of Public Safety; and by making the agenda and report available at the Sunnyvale Public Library, the Office of the City Clerk and on the City's Web site.

RECOMMENDATION

It is recommended that Council:

1. Award a contract, in substantially the same form as the attached draft and in the amount of \$98,884 to Geosyntec Consultants for the subject project, and authorize the City Manager to execute the contract when all the necessary conditions have been met; and
2. Approve a 10% contract contingency in the amount of \$9,888.

Reviewed by:

Grace K. Leung, Director of Finance
Prepared by: Pete Gonda, Purchasing Officer

Reviewed by:

Kent Steffens, Director of Public Works

Reviewed by:

John Stufflebean, Director of Environmental Services

Approved by:

Gary M. Luebbers
City Manager

Attachment

- A. Draft Services Agreement

**CONSULTANT SERVICES AGREEMENT BETWEEN THE
CITY OF SUNNYVALE
AND GEOSYNTEC CONSULTANTS
FOR PREPARATION OF A FEASIBILITY STUDY AND FINAL REPORT FOR
ESTABLISHING A COMMUNITY ANIMAL FARM AND ALTERNATIVE
RECREATIONAL USES FOR THE SUNNYVALE LANDFILL**

THIS AGREEMENT, dated _____, is by and between the CITY OF SUNNYVALE, a municipal corporation ("CITY"), and GEOSYNTEC CONSULTANTS ("CONSULTANT").

WHEREAS, CITY is in need of services for the preparation of a Feasibility Study for an area of the CITY known as Sunnyvale Landfill; and

WHEREAS, CONSULTANT possesses the skill and expertise to provide the required services;

NOW, THEREFORE, THE PARTIES ENTER INTO THIS AGREEMENT

1. Contract Documents

The complete Contract consists of the following documents: Request for Proposal No. 13-60, consisting of a Notice Inviting Proposals, Instructions to Proposers, Specifications, Terms and Conditions, CONSULTANT's completed Proposal and Scope of Work contained in Exhibit "A", and the Budget Summary contained in Exhibit "B". These documents are all incorporated by reference. The documents comprising the complete contract are collectively referred to as the Contract Documents.

Any and all obligations of the CITY and the CONSULTANT are fully set forth and described therein.

All of the above documents are intended to cooperate so that any work called for in one and not mentioned in the other or vice versa is to be executed the same as if mentioned in all documents.

2. Time for Performance

The term of this Agreement shall begin on the date of execution of contract through November 19, 2013. Extensions of time may be granted by the City Manager or his/her designee upon a showing of good cause.

3. Duties of CITY

CITY shall supply any documents or information available to City required by CONSULTANT for performance of its duties. Any materials provided shall be returned to CITY upon completion of the work.

4. Compensation

CITY agrees to pay CONSULTANT as outlined in Exhibit "B" Cost Proposal. Total compensation payable under this agreement shall not exceed Ninety Eight Thousand Eight Hundred Eighty Four and no/100 dollars (\$98,884.00).

CONSULTANT shall submit invoices to CITY no more frequently than monthly for services provided to date. Payment shall be made within thirty (30) days upon receipt of an accurate, itemized invoice by CITY's Accounts Payable Unit.

5. Ownership of Documents

CITY shall have full and complete access to CONSULTANT's working papers, drawings and other documents during progress of the work. All documents of any description prepared by CONSULTANT shall become the property of the CITY at the completion of the project and upon payment in full to the CONSULTANT. CONSULTANT may retain a copy of all materials produced pursuant to this Agreement.

6. Conflict of Interest

No officer or employee of CITY shall have any interest, direct or indirect, in this Agreement or in the proceeds thereof. During the term of this Agreement CONSULTANT shall not accept employment or an obligation which is inconsistent or incompatible with CONSULTANT's obligations under this Agreement.

7. Confidential Information

CONSULTANT shall maintain in confidence and at no time use, except to the extent required to perform its obligations hereunder, any and all proprietary or confidential information of CITY of which CONSULTANT may become aware in the performance of its services.

8. Compliance with Laws

- (a) CONSULTANT shall not discriminate against, or engage in the harassment of, any City employee or volunteer or any employee of CONSULTANT or applicant for employment because of an individual's race, religion, color, sex, gender identity, sexual orientation (including heterosexuality, homosexuality and bisexuality), ethnic or national origin, ancestry, citizenship status, uniformed service member status, marital status, family relationship, pregnancy, age, cancer or HIV/AIDS-related medical condition, genetic characteristics, and physical or mental disability (whether perceived or actual). This prohibition shall apply to all of CONSULTANT's employment practices and to all of CONSULTANT's activities as a provider of services to the City.
- (b) CONSULTANT shall comply with all federal, state and city laws, statutes, ordinances, rules and regulations and the orders and decrees of any courts

or administrative bodies or tribunals in any manner affecting the performance of the Agreement.

9. Independent Contractor

CONSULTANT is acting as an independent contractor in furnishing the services or materials and performing the work required by this Agreement and is not an agent, servant or employee of CITY. Nothing in this Agreement shall be interpreted or construed as creating or establishing the relationship of employer and employee between CITY and CONSULTANT. CONSULTANT is responsible for paying all required state and federal taxes.

10. Indemnity

CONSULTANT shall indemnify and hold harmless CITY and its officers, officials, employees and volunteers against any and all suits, claims, damages, liabilities, costs and expenses, including attorney fees, arising out of the performance of the work described herein, caused by or related to the negligence, recklessness, or willful misconduct of CONSULTANT, its employees, subcontractors, or agents in the performance (or non-performance) of services under this Agreement.

11. Insurance

CONSULTANT shall take out and maintain during the life of this Agreement policies of insurance as specified in Exhibit "C" attached and incorporated by reference, and shall provide all certificates or endorsements as specified in Exhibit "C."

12. CITY Representative

Manuel Pineda, as the City Manager's authorized representative, shall represent CITY in all matters pertaining to the services to be rendered under this Agreement. All requirements of CITY pertaining to the services and materials to be rendered under this Agreement shall be coordinated through the CITY representative.

13. CONSULTANT Representative

Fabrizio Settepani, shall represent CONSULTANT in all matters pertaining to the services and materials to be rendered under this Agreement; all requirements of CONSULTANT pertaining to the services or materials to be rendered under this Agreement shall be coordinated through the CONSULTANT representative.

14. Notices

All notices required by this Agreement, other than invoices for payment which shall be sent directly to Accounts Payable, shall be in writing, and shall be personally delivered, sent by first class with postage prepaid, or sent by commercial courier, addressed as follows:

To CITY: Manuel Pineda, Assistant Director/Civil Engineer
Public Works
CITY OF SUNNYVALE
P. O. Box 3707
Sunnyvale, CA 94088-3707

To CONSULTANT: Fabrizio Settepani, Senior Engineer
Geosyntec Consultants
111 Broadway, 6th Floor
Oakland, CA 94607

Nothing in this provision shall be construed to prohibit communication by more expedient means, such as by telephone or facsimile transmission, to accomplish timely communication. However, to constitute effective notice, written confirmation of a telephone conversation or an original of a facsimile transmission must be sent by first class mail or commercial carrier, or hand delivered. Each party may change the address by written notice in accordance with this paragraph. Notices delivered personally shall be deemed communicated as of actual receipt; mailed notices shall be deemed communicated as of two days after mailing, unless such date is a date on which there is no mail service. In that event communication is deemed to occur on the next mail service day.

15. Assignment

Neither party shall assign or sublet any portion of this Agreement without the prior written consent of the other party.

16. Termination

If CONSULTANT defaults in the performance of this Agreement, or materially breaches any of its provisions, CITY at its option may terminate this Agreement by giving written notice to CONTRACTOR. If CITY fails to pay CONSULTANT, CONSULTANT at its option may terminate this Agreement if the failure is not remedied by CITY within thirty (30) days after written notification of failure to pay.

Without limitation to such rights or remedies as CITY shall otherwise have by law, CITY also shall have the right to terminate this Agreement for any reason upon ten (10) days' written notice to CONSULTANT. In the event of such termination, CONSULTANT shall be compensated in proportion to the percentage of services performed or materials furnished (in relation to the total which would have been performed or furnished) through the date of receipt of notification from CITY to terminate. CONTRACTOR shall present CITY with any work product completed at that point in time.

17. Entire Agreement Amendment

This writing constitutes the entire agreement between the parties relating to the services to be performed or materials to be furnished hereunder. No modification of this Agreement shall be effective unless and until such modification is evidenced by writing signed by all parties.

18. Miscellaneous

Time shall be of the essence in this Agreement. Failure on the part of either party to enforce any provision of this Agreement shall not be construed as a waiver of the right to compel enforcement of such provision or any other provision. This Agreement shall be governed and construed in accordance with the laws of the State of California.

IN WITNESS WHEREOF, the parties have executed this Agreement.

ATTEST:

CITY OF SUNNYVALE ("CITY")

By _____
City Clerk

By _____
City Manager

APPROVED AS TO FORM:

GEOSYNTEC CONSULTANTS
("CONSULTANT")

By _____
City Attorney

By Nancy T. Bice

Nancy T. Bice, Vice President
Name and Title

By _____

Name and Title

EXHIBIT "C"
INSURANCE REQUIREMENTS

CONSULTANT shall procure and maintain for the duration of the Agreement insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work by CONSULTANT, its agents, representatives, or employees.

Minimum Scope and Limits of Insurance

CONSULTANT shall maintain limits no less than:

1. **Commercial General Liability**: \$1,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. ISO Occurrence Form CG 0001 is required.
2. **Automobile Liability**: \$1,000,000 per accident for bodily injury and property damage. ISO Form CA 0001 is required.
3. **Workers' Compensation** and **Employer's Liability**: \$1,000,000 per accident for bodily injury or disease.
4. **Errors and Omissions** Liability Insurance appropriate to CONSULTANT's profession: \$1,000,000 per occurrence.

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared and approved by CITY. CONSULTANT shall guarantee payment of any losses and related investigations, claim administration and defense expenses within the deductible or self-insured retention.

Other Insurance Provisions

The **general liability** and **automobile liability** policies are to contain, or be endorsed to contain, the following provisions:

1. CITY, its officials, employees, agents and volunteers are to be covered as additional insureds with respect to liability arising out of activities performed by or on behalf of CONSULTANT; products and completed operations of CONSULTANT; premises owned, occupied or used by CONSULTANT; or automobiles owned, leased, hired or borrowed by CONSULTANT. The coverage shall contain no special limitations on the scope of protection afforded to CITY, its officers, employees, agents or volunteers, except as follows: Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the

additional insured would be invalid under Subdivision (b) of section 2782 of the Civil Code.

2. For any claims related to this project, CONSULTANT's insurance shall be primary. Any insurance or self-insurance maintained by CITY, its officers, officials, employees, agents and volunteers shall be excess of CONSULTANT's insurance and shall not contribute with it.
3. Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage provided to CITY, its officers, officials, employees, agents or volunteers.
4. CONSULTANT's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
5. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, cancelled by either party, reduced in coverage or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to CITY.

Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A: VII, unless otherwise acceptable to CITY.

Verification of Coverage

CONSULTANT shall furnish to CITY original Certificate(s) of Insurance and endorsements effecting the coverage required. The Certificate(s) shall be signed by a person authorized by that insurer to bind coverage on its behalf. All certificates and endorsements are to be received and approved by CITY prior to commencement of work.

Prepared for:

**City of Sunnyvale
Purchasing Division
City Hall Annex
650 West Olive Avenue
Sunnyvale, CA 94088-3707**

**PROPOSAL FOR FEASIBILITY STUDY AND
FINAL REPORT FOR ESTABLISHING A
COMMUNITY ANIMAL FARM AND
ALTERNATIVE RECREATIONAL LAND
USES AT THE SUNNYVALE LANDFILL**

Prepared by:



**4 North Second Street, Suite 650
San Jose, CA 95113-1326**



engineers | scientists | innovators

**1111 Broadway, Sixth Floor
Oakland, California 94607**

Revision 1- 28 June 2013

2 PROJECT APPROACH & WORKPLAN

2.1 Statement of Approach

2.1.1 Purpose

The Geosyntec/Crawford Team understands that the main purpose of the Study is to provide a guide for the City for establishing recreational uses at the Sunnyvale Landfill. This guide is to include analyses of possible recreational uses and their feasibility based on landfill constraints, regulations, constructability, public infrastructure improvements that would be needed, and conceptual costs. The City would like the feasibility analyses and recommendations to be incorporated concisely within a single document.

2.1.2 Recreational Uses to be Considered

We also understand that one recreational use to be explored is to be the proposed use of a portion of the landfill by the non-profit organization Animal Assisted Happiness (AAH) for boarding barnyard animals and operating its services. AAH is a nonprofit whose mission is to bring smiles to underserved communities such as at-risk youth, people with special needs, and seniors and veterans through therapeutic animal interaction. AAH and the City would like to explore the possibility of leasing a portion of the Sunnyvale Landfill to AAH to better serve the community of Sunnyvale and promote AAH's mission.

Other recreational uses such as sports fields for use by youth leagues and sports groups are to be considered. The list of uses will include those identified through public involvement in the feasibility study, as discussed below.

In its evaluation of possible recreational uses for the Sunnyvale Landfill, the Consultant Team will review the types, and successes, of post-closure recreational uses provided at other landfills. We will specifically focus on recreational uses provided at other landfill sites in the Bay Area.

2.1.3 Community Outreach

The feasibility study will include a community outreach process to help the City provide a plan that serves the community's needs. Two community meetings will be scheduled by the City during development of feasibility study. The first meeting will be held during the early stages of the feasibility study to engage the community in the study process and gather input on the range of possible uses to be

analyzed during the study. The second meeting will be held to present the draft findings of the study. A member of the Geosyntec/Crawford Team will participate and make presentations in both meetings.

2.1.4 Timeframe

The City needs to have the study completed within a 12-week timeframe. The study needs to be completed by mid-October 2013 in order for City staff to prepare their recommendations for a City Council meeting in November 2013.

2.1.5 Approach

Our approach to the project is to follow the project steps and sequencing as outlined in the RFP. Preparation of the feasibility study is to involve preparation and submittal of six separate components for review by City Staff. These components are:

- Analysis of Issues, Constraints, and Opportunities
- Goals and Policies
- Alternative Land Uses
- Constructability Analysis
- Infrastructure
- Transportation/Circulation

Several of these components will be prepared in sequence, allowing the feasibility study to be refined and developed in stages. Specifically, no work on items 4 and 5 can be performed until items 1 through 3 are largely complete and the possible uses for the site have been established. Note also that the transportation/circulation component will be very general in nature, as no formal traffic study will be performed as part of this work.

In addition, an Environmental Review component is to be included. The Environmental Review will discuss possible environmental issues that would need to be addressed and will make a process recommendation for moving forward with a project. Note that this review will necessarily be general in nature, focusing on typical environmental constraints with landfill redevelopment.

A final report will be generated that includes a summary of the above components, final recommendations, and possible next steps.

The Geosyntec/Crawford Team will work closely with City staff throughout the duration of the study in order to ensure timely completion of project deliverables.

As good communications, coordination, and planning will be essential for the success and timely completion of this project, we will hold an organizational and planning meeting with the City staff involved in the project within a few days after contract award. At this meeting, we propose to:

- Review expectations and procedures for project communications, project deliverables, and review by City staff
- Refine / adjust the project schedule presented in this proposal
- Plan the first community meeting
- Gather project documentation and existing work products to use in preparation of the feasibility study (CAD files, electronic copies of documents, etc.)

We will also schedule a site visit to coincide with the planning meeting with City staff to review site conditions.

2.2 Background

2.2.1 General

This section presents our understanding of the site background based on information: (1) contained in the RFP, (2) provided at the pre-proposal conference, and (3) from Waste Discharge Requirements Order No. R2-2004-0030 issued by the Regional Water Quality Control Board (RWQCB) San Francisco Region.

2.2.2 Landfill Setting and Description

The City of Sunnyvale Landfill is a closed landfill on an approximately 93-acre site located in the northern part of the City and adjacent to tidal flats and former salt ponds in the southern margins of San Francisco Bay. The City of Sunnyvale is the property owner and operator of the landfill. Waste disposal activities reportedly began at the site in the 1920s, when the property was under different ownership. The site was permitted for operation as a sanitary landfill by state oversight agencies in the 1970s. The site has been designated as a Class III Landfill and was used for disposal of non-hazardous residential, commercial, and industrial Municipal Solid Waste (MSW) and construction debris until 1993.

The landfill is approximately 5,700 feet long and varies between 400 and 1,100 feet wide and consists of four refuse hills referred to as the West Hill, Recycle Hill, South Hill, and the East Hill. With the exception of a materials-recycling facility located on the East Hill, the landfill is undeveloped and

covered with grass. The MSW landfill was closed in eight separate phases extending from approximately the mid-1980s through 1994, per CCR Title 14 and 23 requirements in effect at the time. A minimum 4-foot thick final cover system was constructed to prescriptive standards, and includes a minimum 1-foot thick low permeability soil layer. The final cover system was placed over all MSW disposal areas.

A surface water drainage system helps minimize the infiltration of rain water by conveyance of runoff along drainage ditches installed along the landfill access roads. Drain pipes and catch basins installed at low points carry drainage beyond the landfill footprint.

Vegetation is managed by using livestock to “mow” the vegetative cover, with a herd of 600-800 goats and sheep brought in twice a year. Minor amounts of reclaimed water are used for dust control on the West Hill and East Hill.

A landfill gas collection and control system and a landfill gas flare were installed in 1987. In 1997, a Power Generation Facility was constructed, primarily to combust landfill gas and digester gas to provide electricity to the Water Pollution Control Plant. Natural gas, in the form of air blended natural gas, was added to the fuel mix in 2002 to allow the export of some electricity to PG&E’s power grid. The landfill is currently designated as a public facility and is maintained mostly as open space for public recreation (e.g., hiking, jogging bicycling, bird watching). A portion of the East Hill area is not open to the public and is leased to a private contractor for concrete and asphalt recycling operations. Use of the East Hill is not to be considered in the proposed feasibility study.

Burrowing owls, a California Species of Special Concern, have used the landfill site for nesting and foraging habitat. The City monitors their activity at the site through the services of a wildlife consultant.

2.2.3 Constraints for Consideration in Planning Recreational Uses

In July 2009, in the *Consideration of Parks of the Future Study Report to Council (RTC) 09-183*, Council directed the Department of Community Services and Department of Public Works staff to develop a long-term plan for the recreational use of the West Hill, Recycle Hill and South Hill portions of the Sunnyvale Landfill. That use will need to be consistent with the post-closure regulatory restrictions that apply to the landfill and its role as habitat for the locally-endangered burrowing owl and other wildlife species.

City staff have indicated that the Feasibility Study will need to evaluate options and opportunities for passive / active recreation and leisure uses and will need to conceptually analyze the capacity and design of possible public improvements and infrastructure required for any new uses. The Feasibility Study should also analyze the construction constraints for possible uses including an analysis of issues that must be addressed when building over a landfill such as limitations to any foundation design, modification of existing grades, and meeting all required regulations. The City is not interested in options that would

require penetration of the low-permeability clay layer or modifications to the surface grades that would affect the thickness of the vegetative cover soils (such as fills that could result in differential settlement, or cuts that would result in less than the prescriptive thickness for the vegetative soil layer). Constraints, goals, and policies that will need to be considered in planning recreational uses are summarized in the following sections.

2.2.3.1 *Landfill Status and Regulatory Framework*

The landfill is currently in its post-closure monitoring and maintenance phase, and is required to comply with many Federal, State and Local regulations administered by the United States Environmental Protection Agency, the California Air Resources Board, the RWQCB, Cal Recycle, the Bay Area Air Quality Management District (BAAQMD), and the Santa Clara County Department of Environmental Health (the local enforcement agency, or LEA).

Any new post-closure land use for the site would need to comply with the post-closure land use regulations of CCR Title 27 Section 21190. These regulations contain provisions to protect public health and safety and prevent damage to structures, roads, utilities, and landfill monitoring and control systems. Post-closure land uses must be designed and operated to maintain integrity of the landfill cap, to prevent water quality impacts, and to address settlement and landfill gas. Construction of structures or placement of temporary structures would need to be designed and maintained so as to not allow concentrations of landfill gas above 1.25% methane to accumulate. Closed structures, such as a small office building for AAH, would need to be continuously monitored for potential landfill gas accumulation using methane gas sensors installed in the structures.

Other landfill-specific requirements and constraints would include, but may not be limited to:

- Height limitations on structures, utility poles etc., including the restrictions stipulated in the agreement with the Federal Aviation Administration (FAA) for the radar facility located north of the landfill and in the Santa Clara County Compatible Land Use Plan (CLUP) for Moffett Airfield.
- Depth of excavation limitations to prevent penetration of the low permeability clay layer
- Limitations on surface modifications (grading) to preclude cuts that would cause a reduction in the thickness of the landfill's final cover, or fills that could cause differential settlement
- Implementation of dust control measures to minimize airborne small particle (PM-2.5) generation
- Need to finish (e.g. reseed) surfaces at project completion so as to not allow ponding of water or increases in, or concentration of, storm water runoff

- Construction of all improvements to be able to withstand, with minimal maintenance by the City, some differential settlement over time
- Restrictions on use as recorded in the 1995 Deed Restriction and as specified in the referenced Post-closure Maintenance Plan

The proximity of the project site to Moffett Federal Airfield (operated by NASA-Ames), Yahoo!, and other businesses will need to be considered to ensure that proposed end-uses do not create potential hazards to NASA or the air field or nearby businesses. The proposed end-uses must also be compatible with the CLUP.

2.2.3.2 *General Plan Goals and Policies*

The City has adopted General Plan goals and policies that will need to be considered in the Feasibility Study, including:

- Goal 3.2H. Manage the closed Sunnyvale Landfill in a manner that protects the public health and safety and the environment, promotes enjoyable public use of the site, and assists in the achievement of other goals of the Environmental Management Solid Waste section.
- Policy 3.2H.1. Ensure compliance with federal, state, and local laws and regulations. Policy 3.2H.3. Provide for safe, enjoyable recreational access to portions of the landfill.
- Policy 3.2H.4. Provide for facilities and activities on portions of the landfill that support achievement of the City's solid and household hazardous waste goals and policies.
- Goal LT-8 Adequate and balanced Open Space. Provide and maintain adequate and balanced open space and recreation facilities for the benefit of maintaining a healthy community based on community needs and the ability of the city to finance, construct, maintain and operate these facilities now and in the future.
- Goal LT-9 Regional approach to Open Space to provide and preserve open space and recreational services, facilities and amenities for the broader community.

2.2.3.3 *Existing Infrastructure and Other Site Conditions*

Existing infrastructure and other site conditions that will need to be considered as constraints for possible end uses would include, but may not be limited to:

- Locations of gas collection and control system elements (wells, headers, laterals, gas collection and return system elements);
- Locations of groundwater wells and leachate risers;

- Locations of current and/or historic burrowing owl burrow locations;
- Existing gravel road locations;
- Existing (adjacent) paved parking area; and
- Potential changes due to a planned Santa Clara Valley Water District levee widening project for the Sunnyvale West Channel.

2.3 Proposed Scope of Services

2.3.1 General

The scope of services to be provided is defined in Section III of the RFP in the following scope items (following the section designation scheme of Section III):

- Scope Item C. Outreach and Community Participation
- Scope Item D.1. Analysis of Issues, Constraints and Opportunities
- Scope Item D.2.a. Feasibility Study - Goals and Policies
- Scope Item D.2.b. Feasibility Study - Alternative Land Uses
- Scope Item D.2.c. Feasibility Study - Constructability Analysis
- Scope Item D.2.d. Feasibility Study - Infrastructure
- Scope Item D.2.e. Feasibility Study - Transportation/Circulation
- Scope Item D.3. Feasibility Study - Environmental Review
- Scope Item D.4. Feasibility Study - Final Report
- **Scope Item E. Meeting and Coordination with the City**

A description of the services to be provided as part of each scope item is summarized below. Additional assumptions for each task are included in the cost estimate detail presented in Attachment 6.

2.3.2 Scope Item C. Outreach and Community Participation

We will prepare for and participate in two public community outreach meetings. We will work in conjunction with City staff to determine interest in possible uses at the initial community meeting. We would then attend a findings meeting to present the draft results of feasibility study. We would also prepare materials for and participate in two public hearings (with Parks and Recreation Commission and City Council).

2.3.3 Scope Item D.1. Analysis of Issues, Constraints and Opportunities

For the initial stage of the study, we will prepare a report assessing existing infrastructure, issues, constraints and opportunities with the Sunnyvale Landfill. The report will include, at a minimum, an assessment of landfill constructability issues, access and parking, and utilities. The City will provide data on existing infrastructure, existing land uses, and landfill-specific requirements and constraints. For this task we assume we will coordinate a site orientation and reconnaissance visit by four project team members with City staff. We will prepare and submit draft report for City review, address City review comments, and then prepare and submit a final report.

2.3.4 Scope Item D.2.a. Feasibility Study - Goals and Policies

For this scope item, the Consultant Team will prepare a set of goals and policies using existing goals and policies provided by City staff and those gathered through the community outreach process. We will prepare a draft set for review and approval by City, address City review comments, and then prepare and submit a final set.

2.3.5 Scope Item D.2.b. Feasibility Study - Alternative Land Uses

For this scope item, the Consultant Team will define possible land use options, including the conceptual location and parameters for buildings and facilities. The land use options will be illustrated with diagrams, maps, and figures. We will include a discussion of land use options analyzed that were determined not to be feasible. **As this study is conceptual in nature, we assume that grading plans for the alternative land uses are outside the scope of work for this project.**

We will prepare and submit draft summary tables, including maps and figures, and including options analyzed but not feasible report for City review, will then address City review comments, and then prepare and submit a final summary tables, including maps and figures, and including options analyzed but not feasible.

2.3.6 Scope Item D.2.c. Feasibility Study - Constructability Analysis

In this stage of the study, we will analyze the constraints and opportunities at the landfill site and prepare a memo with a full discussion of permitting requirements, limits of construction, earthwork constraints, and settlement issues for building foundations, utility systems, parking, and related items. This component of the study will include a conceptual analysis and estimate of costs to construct proposed land uses.

Some of the key issues that would need to be addressed are discussed below.

- Of particular concern is that any improvements would need to be constructed so that the depth of excavation or penetration does not penetrate the landfill's low permeability soil layer. The City does not wish to disturb or penetrate the clay layer for any improvements constructed on the landfill. According to information in RWQCB Order No. R2-2004-0030, the landfill cap consists of a minimum four-foot thick cover consisting of, from the surface down, the following layers: a 1 – 1.5 foot-thick vegetative soil layer, a 1 – 1.5 foot-thick low permeability clay layer, and a 1 – 2 foot-thick foundation layer. Based on this configuration, there is only 1 to 1.5 feet of vegetative soil above the low permeability clay layer. Methods of construction for proposed improvements so that there is no penetration of the low permeability soil layer would need to be explored. For example, supports for fence poles could be anchored in aboveground footings.
- Similar concerns would arise for the structures that would be needed since the California Building Code requires shallow footings to have a minimum depth of burial.
- The landfill will continue to settle over time due to decomposition of the waste; therefore, differential settlement would need to be addressed in the proposed buildings.
- Any construction project will need to address fugitive dust emissions. We understand that the project will need to implement dust control measures to minimize generation of airborne small particles (PM-2.5). Furthermore, AAH has proposed that their program include the riding of donkeys, horses, mules, and llamas which will require an arena. Typically, these activities will generate dust that will also need to be addressed.
- The landfill has an active landfill gas collection system which will continue to be operated and maintain. The location of the various elements of the current LFG system will need to be compared to the proposed improvements.

In addition to the above concerns, the constructability analysis will address other constraints and opportunities as identified in earlier stages of the study.

We understand that the City expects order-of-magnitude cost estimates for the considered uses rather than engineer's cost estimates. However, in consideration of project budget and schedule constraints, we assume that preparation of cost estimates for four main land-use options (AAH plus 3 others) will be sufficient. The list of options for which cost estimates would be prepared would be reviewed with the City. In the event that the City determines that additional efforts for cost estimate preparation are warranted, we have provided a cost option in the Cost Proposal for such efforts.

The Geosyntec/Crawford Team has assumed that for this technical memo, preparation of figures in addition to any previously prepared or use for project deliverables will not be required.

We will prepare a draft technical memo on constructability analysis with cost estimates to construct proposed land uses, address City review comments, and then prepare a final technical memo on constructability analysis with cost estimates to construct proposed land uses.

2.3.7 Scope Item D.2.d. Feasibility Study - Infrastructure

For this scope item, the Consultant Team will define the size and locations of utilities and public service facilities in a technical memo. The memo will include an analysis of future points of connection and identify location of utilities based on the proposed uses. A conceptual analysis and order-of-magnitude estimates of costs to construct required public infrastructure within the landfill area will be included.

We will prepare a draft technical memo on infrastructure analysis, address City review comments, and then prepare a final technical memo on infrastructure analysis.

2.3.8 Scope Item D.2.e. Feasibility Study – Transportation/Circulation

The Consultant Team will identify existing transportation, roadway, pedestrian, bicycle network and improvements as needed to support the proposed land uses, and prepare a technical memo. The memo will include a discussion of parking needs. Our understanding is that a conceptual evaluation of access and parking at the site and its vicinity will be sufficient.

We will prepare a draft technical memo on transportation/circulation, address City review comments, and then prepare a final technical memo on the transportation/circulation element.

2.3.9 Scope Item D.3. Feasibility Study - Environmental Review

We will prepare a summary of the key environmental issues that will need to be addressed if the City chooses to move forward with a project. An environmental document to address the California Environmental Quality Act (CEQA) will not be required as part of this scope item.

We will prepare a draft summary of key environmental issues to be addressed, incorporate City review comments, and then prepare a final summary.

2.3.10 Scope Item D.4. Feasibility Study - Final Report

The Consultant Team will prepare a final report incorporating all the scope elements above and the final recommendations. Before preparing a draft report, we will prepare a report outline for review and approval by City. We will then prepare a draft report with all analyzed elements, final recommendations, and possible next steps. We will address City review comments and then prepare a final report with all

analyzed elements, final recommendations, and possible next steps. We anticipate that the report will include the previously submitted and approved final reports, final memos, and other final deliverables.

2.3.11 Scope Item E. Meeting and Coordination with the City

Based on our conversations with the City, we have included time for one additional face-to-face meeting with the City, during the early stages of the project, and two conference calls, to be scheduled at relevant points during the project duration. In our opinion this additional interaction with the City, will allow us to better fulfill the objectives of the City.

2.4 Assistance from the City

As the City has stated that it will provide final approval of all work products and shall determine what constitutes satisfactory completion of each significant stage or milestone in the Feasibility Study process, the Consultant Team will need to review the City review/comment process for the draft project deliverables, and the expected turnaround times. Successful completion of the study rests will depend on adherence to a mutually established schedule for all the project deliverables and the timely review by the City of each draft deliverable.

As discussed in Section 2.1.5, we recommend holding an organizational and planning meeting with the City staff involved in the project within a few days after contract award. For this meeting, we would request the City's assistance to:

- Review expectations and procedures for project communications, project deliverables, and review by City staff
- Establish one main point of contact for the Geosyntec/Crawford Team
- Refine / adjust the project schedule presented in this proposal
- Plan the first community meeting.

We would also request that City staff lead a site tour and overview to occur on the same day as the organizational and planning meeting with the City.

In addition, the Geosyntec/Crawford Team would request the following from the City in order to facilitate timely completion of the project scope items:

- Obtain permissions and provide the correct contacts in the City for the Geosyntec/Crawford Team members to contact.

- Provide the existing information for the Landfill in a timely manner.
- Provide the existing information for the Landfill in electronic form.
- Coordinate the delivery of existing information for the Landfill from all the City Departments involved.
- Establish an FTP for all City information.
- Communicate and copy all members of the Geosyntec/Crawford Team in project communications.
- Coordinate and deliver all the review comments for the various project deliverables to the Geosyntec/Crawford Team in one submittal for each review phase, and by the mutually agreed-upon deadlines in the approved project schedule
- Schedule and coordinate the Community Outreach and City meetings

For the information to be provided to the Consultant Team under Scope Item D.1, Analysis of Issues, Constraints and Opportunities, we have assumed that the City will provide electronic versions of the available documents in PDF and/AutoCAD or equivalent. We have also assumed that all the information from the various City departments involved in the City of Sunnyvale Landfill and this project such as Environmental Services, Parks and Recreation, Public Works, etc. will be compiled by the City contact and transmitted to the Geosyntec/Crawford Team as one submittal. Specific assumptions about the availability of AutoCAD files and other project documentation are outlined below.

1. We understand that the landfill was closed in the early 1990s so the AutoCAD files used to design the closure may not be available; however, we have assumed that relevant reports that may have originally been in paper form (for example, construction quality assurance reports, design reports, etc.) have been scanned and are available to the Geosyntec/Crawford Team in PDF format and will be transmitted to the Geosyntec/Crawford Team via an FTP site, CD or DVD.
2. We have assumed the site topography is available in AutoCAD and will be available from the City. Furthermore, since the landfill has an active gas control system and is in post-closure monitoring, we have assumed that existing infrastructure such as the location of gas collection and control system elements (wells, headers, laterals, gas collection and return system elements) and the location of groundwater wells and leachate risers are available in AutoCAD as well.
3. The Geosyntec/Crawford Team reviewed the 29 March 2013 presentation by Debra Chromczak on burrowing owls provided by the City. The presentation shows the location of current and/or historic burrowing owl burrows. The Geosyntec/Crawford Team assumes that the surveyed locations are available in AutoCAD; alternatively, we will overlay them based on the Chromczak presentation.

4. Since the Santa Clara Valley Water District plans to widen the levee for the Sunnyvale West Channel, we have assumed that this information will also be available to us in AutoCAD format.
5. Given the budget constraints, we have not assumed extensive manipulation of the files; therefore, the Geosyntec/Crawford Team will prepare the exhibits and graphics using publicly available, free information.

Exhibit B

6 COST PROPOSAL

The total estimated cost for this project is **\$98,884**. A detailed cost breakdown for each of the proposed tasks has been included as Attachment 4. In addition, we have also included our team's Billing Rate Schedule (see Attachment 5), which has been used to estimate the budget for this project. A summary of the final cost estimate for each of the tasks described in our project approach and workplan is presented below for convenience:

Scope Item	Total (\$)
Scope Item C. Outreach and Community Participation	\$ 17,746
Scope Item D.1. Analysis of Issues, Constraints and Opportunities	\$ 12,427
Scope Item D.2.a. Feasibility Study - Goals and Policies	\$ 6,229
Scope Item D.2.b. Feasibility Study - Alternative Land Uses	\$ 10,636
Scope Item D.2.c. Feasibility Study - Constructability Analysis	\$ 16,648
Scope Item D.2.d. Feasibility Study - Infrastructure	\$ 11,811
Scope Item D.2.e. Feasibility Study - Transportation/Circulation	\$ 4,370
Scope Item D.3. Feasibility Study - Environmental Review	\$ 3,132
Scope Item D.4. Feasibility Study - Final Report	\$ 10,658
Scope Item E. Meeting and Coordination with the City	\$ 5,228
Project Total =	\$ 98,884

**Cost Proposal
City of Sunnyvale Landfill Feasibility Study**

COST PROPOSAL SUMMARY

Summary By Scope Item

	Total (\$)
Scope Item C. Outreach and Community Participation	\$ 17,746
Scope Item D.1. Analysis of Issues, Constraints and Opportunities	\$ 12,427
Scope Item D.2.a. Feasibility Study - Goals and Policies	\$ 6,229
Scope Item D.2.b. Feasibility Study - Alternative Land Uses	\$ 10,636
Scope Item D.2.c. Feasibility Study - Constructability Analysis	\$ 16,648
Scope Item D.2.d. Feasibility Study - Infrastructure	\$ 11,811
Scope Item D.2.e. Feasibility Study - Transportation/Circulation	\$ 4,370
Scope Item D.3. Feasibility Study - Environmental Review	\$ 3,132
Scope Item D.4. Feasibility Study - Final Report	\$ 10,658
Scope Item E. Meetings and Coordination with the City	\$ 5,228
Project Total	\$ 98,884

Team Member Summary

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	141	170.5	24,041
Staff Scientist	hr	95	104.5	9,928
Admin	hr	8	55	440
CADD	hr	52	57.75	3,003
Reimbursables	lump			1,207
<i>Geosyntec</i>				
Senior Engineer	hr	156	194	30,264
Project Engineer	hr	156	172	26,832
Admin	hr	22	60	1,320
Reimbursables	lump			1,850
Hours =		630		
Project Total				\$ 98,884

See Cost Proposal Detail - pages 2 - 6

Cost Proposal
City of Sunnyvale Landfill Feasibility Study

COST PROPOSAL DETAIL

Scope Item C. Outreach and Community Participation-MODIFIED SCOPE ITEM

Prepare for and participate in two public community outreach meetings
 Initial public meeting to determine interest in possible uses. Assume 2 project members attend and materials for the meeting are provided by the City.
 Second public meeting to present draft results of feasibility study to the public. Assume 2 project members attend and materials for the meeting are prepared by the Consultant.
 Prepare materials for and participate in two public hearings (Parks and Recreation Commission and City Council). Assume one project member attend each public hearing.

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	35	170.5	5,968
Staff Scientist	hr	19	104.5	1,986
Admin	hr	0	55	-
CADD	hr	14	57.75	809
Reimbursables	lump			800
<i>Geosyntec</i>				
Senior Engineer	hr	28	194	5,432
Project Engineer	hr	16	172	2,752
Admin	hr	0	60	-
Reimbursables	lump			-
		112		
			Task Total \$	17,746

Scope Item D.1. Analysis of Issues, Constraints and Opportunities

Prepare report assessing existing infrastructure, issues, constraints and opportunities with the Sunnyvale Landfill area. The City will provide data on existing infrastructure, existing land uses, and landfill-specific requirements and constraints.
 Assume City will issue one submittal of existing data in electronic format (pdf and original CADD format as available).
 Assume half-day site orientation and reconnaissance visit by 4 project team members.
 Prepare and submit draft report, final report. Assume 16 hours project staff time sufficient to address draft comments.
 Assume 16 hours project staff time sufficient to address draft comments from City.

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	28	170.5	4,774
Staff Scientist	hr	14	104.5	1,463
Admin	hr	4	55	220
CADD	hr	8	57.75	462
Reimbursables	lump			-
<i>Geosyntec</i>				
Senior Engineer	hr	16	194	3,104
Project Engineer	hr	12	172	2,064
Admin	hr	4	60	240
Reimbursables	lump			100
		86		
			Task Total \$	12,427

Cost Proposal
City of Sunnyvale Landfill Feasibility Study

Scope Item D.2.a. Feasibility Study - Goals and Policies

Prepare set of goals and policies gathered through the community outreach process and from City staff.
 Assume City will issue one submittal of existing goals and policies prior for project team to compare and supplement information gathered through public outreach.
 Prepare draft set for review and approval by City.
 Prepare final set of goals and policies.
 Assume 6 hours project staff time sufficient to address draft comments from City.

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	12	170.5	2,046
Staff Scientist	hr	10	104.5	1,045
Admin	hr	2	55	110
CADD	hr	0	57.75	-
Reimbursables	lump			-
<i>Geosyntec</i>				
Senior Engineer	hr	8	194	1,552
Project Engineer	hr	8	172	1,376
Admin	hr	0	60	-
Reimbursables	lump			100
		40		
			Task Total \$	6,229

Scope Item D.2.b. Feasibility Study - Alternative Land Uses

Define possible land use options, including the conceptual location of buildings and facilities.
 Illustrate land use options with diagrams, maps, and figures.
 Include discussion of land use options analyzed that were determined not to be feasible.
 Prepare draft summary tables, including maps and figures, and including options analyzed but not feasible.
 Prepare final summary tables, including maps and figures, and including options analyzed but not feasible.
 Assume 12 hours project staff time sufficient to address draft comments from City.

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	16	170.5	2,728
Staff Scientist	hr	12	104.5	1,254
Admin	hr	2	55	110
CADD	hr	16	57.75	924
Reimbursables	lump			100
<i>Geosyntec</i>				
Senior Engineer	hr	12	194	2,328
Project Engineer	hr	16	172	2,752
Admin	hr	4	60	240
Reimbursables	lump			200
		78		
			Task Total \$	10,636

Cost Proposal
City of Sunnyvale Landfill Feasibility Study

Scope Item D.2.c. Feasibility Study - Constructability Analysis

Analyze constraints/opportunities at the landfill site and prepare a memo with a full discussion of permitting requirements, limits of construction, earthwork constraints, and settlement issues for building foundations, utility systems, parking, and related items.

Conceptual analysis and estimate of costs to construct proposed land uses.

Prepare draft technical memo on constructability analysis with cost estimates to construct proposed land uses.

Prepare final technical memo on constructability analysis with cost estimates to construct proposed land uses.

Assume prepare cost estimates for a total of 4 main land-use options (AAH plus 3 other options).

Assume 16 hours project staff time sufficient to address draft comments from City.

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	12	170.5	2,046
Staff Scientist	hr	4	104.5	418
Admin	hr	0	55	-
CADD	hr	0	57.75	-
Reimbursables	lump			-
<i>Geosyntec</i>				
Senior Engineer	hr	36	194	6,984
Project Engineer	hr	40	172	6,880
Admin	hr	2	60	120
Reimbursables	lump			200
		94		
			Task Total \$	16,648

Scope Item D.2.d. Feasibility Study - Infrastructure

Define the size and locations of utilities and public service facilities in technical memo.

Analyze future points of connection and identify location of utilities based on the proposed uses.

Conceptual analysis and estimate of costs to construct required public infrastructure within the landfill area.

Prepare draft technical memo on infrastructure analysis.

Prepare final technical memo on infrastructure analysis.

Assume 12 hours project staff time sufficient to address draft comments from City.

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	4	170.5	682
Staff Scientist	hr	4	104.5	418
Admin	hr	0	55	-
CADD	hr	4	57.75	231
Reimbursables	lump			-
<i>Geosyntec</i>				
Senior Engineer	hr	24	194	4,656
Project Engineer	hr	32	172	5,504
Admin	hr	2	60	120
Reimbursables	lump			200
		70		
			Task Total \$	11,811

Cost Proposal
City of Sunnyvale Landfill Feasibility Study

Scope Item D.2.e. Feasibility Study - Transportation/Circulation

Identify existing transportation, roadway, pedestrian, bicycle network and improvements as needed to support the proposed land uses, and prepare a technical memo. Include discussion of parking needs.
 Prepare draft technical memo on transportation/circulation element.
 Prepare final technical memo on transportation/circulation element.
 Assume that a conceptual evaluation of access and parking at the site and its vicinity will be sufficient.
 Assume 4 hours project staff time sufficient to address draft comments from City.

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	4	170.5	682
Staff Scientist	hr	2	104.5	209
Admin	hr	0	55	-
CADD	hr	4	57.75	231
Reimbursables	lump			-
<i>Geosyntec</i>				
Senior Engineer	hr	8	194	1,552
Project Engineer	hr	8	172	1,376
Admin	hr	2	60	120
Reimbursables	lump			200
		28		
			Task Total \$	4,370

Scope Item D.3. Feasibility Study - Environmental Review

Identify and discuss possible environmental issues that will need to be addressed.
 Make process recommendation for City if it decides to proceed with a project.
 Prepare draft summary on key environmental issues.
 Prepare final summary on key environmental issues.
 Assume 4 hours project staff time sufficient to address draft comments from City.

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	8	170.5	1,364
Staff Scientist	hr	8	104.5	836
Admin	hr	0	55	-
CADD	hr	0	57.75	-
Reimbursables	lump			200
<i>Geosyntec</i>				
Senior Engineer	hr	2	194	388
Project Engineer	hr	2	172	344
Admin	hr	0	60	-
Reimbursables	lump			-
		20		
			Task Total \$	3,132

**Cost Proposal
City of Sunnyvale Landfill Feasibility Study**

Scope Item D.4. Feasibility Study - Final Report-MODIFIED SCOPE ITEM

Prepare final report incorporating all elements above and final recommendations.
 Prepare outline for review and approval by City.
 Prepare draft report with all analyzed elements, final recommendations, possible next steps.
 prepare final report with all analyzed elements, final recommendations, possible next steps.
 Assume 6 hours project staff time sufficient to address draft comments from City.
 Assumes 4 draft hard copies, 3 final hard copies, plus pdfs.

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	14	170.5	2,387
Staff Scientist	hr	14	104.5	1,463
Admin	hr	0	55	-
CADD	hr	6	57.75	347
Reimbursables	lump			107
<i>Geosyntec</i>				
Senior Engineer	hr	14	194	2,716
Project Engineer	hr	14	172	2,408
Admin	hr	8	60	480
Reimbursables	lump			750
		70		
			Task Total \$	10,658

Scope Item E. Meetings and Coordination with the City- NEW SCOPE ITEM

Assumes one additional face-to-face meeting at the City's office.
 Assumes two conference calls with the City at relevant points during the project duration.
 Four team members to attend face-to-face meetings and conference calls.

	Unit	Quantity	Rate (\$)	Total (\$)
<i>Crawford</i>				
Senior Consultant	hr	8	170.5	1,364
Staff Scientist	hr	8	104.5	836
Admin	hr	0	55	-
CADD	hr	0	57.75	-
Reimbursables	lump			-
<i>Geosyntec</i>				
Senior Engineer	hr	8	194	1,552
Project Engineer	hr	8	172	1,376
Admin	hr	0	60	-
Reimbursables	lump			100
		32		
			Task Total \$	5,228
			Project Total \$	98,884

Cost Option for Additional Detailed Constructability and Cost Estimate Analyses

Perform conceptual constructability analysis and cost estimate for additional proposed land uses if City desires Consultant Team to analyze more than four main options as proposed in Scope Item D.2.c. Feasibility - Constructability Analysis.
 Assumes options will not involve penetration of the clay cap.

Each additional land-use option \$6,000