

TABLES

**Table 1. Goals and Policies
Sunnyvale Landfill
City of Sunnyvale, California**

Goal / Policy	Description
From General Plan	
Policy LT-1.10	Support land use planning that complements the regional transportation system.
Policy LT-1.11	Protect regional environmental resources through local land use practices.
Policy LT -4.14	Support the provision of a full spectrum of public and quasi-public services (eg, parks, day care, group living, recreations centers, religious institutions) that are appropriately located in residential, commercial and industrial neighborhoods and ensure that they have beneficial effects on the surrounding area.
Policy LT-5.8	Provide a safe and comfortable system of pedestrian and bicycle pathways.
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.
Policy LT-8.1	Follow management and preventive maintenance strategies to extend the usable life of open spaces and recreation facilities, such as planning for and implementing “non-use times” for open space and facilities in order to assure adequate maintenance and regeneration time.
Policy LT-8.2	Adopt management, maintenance and development practices that minimize negative impacts to the natural environment, such as supporting and enforcing the Integrated Pest Management System; and landscaping in ways which minimize the need for water.
Policy LT-8.12	Utilize design and development guidelines for all park types within the city’s open space system.
Policy LT-8.13	Mitigate as feasible the open space need in areas identified as underserved through the acquisition of new parkland and/or the addition of amenities in order

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	to bring sites in line with design and development guidelines.
Policy LT-8.15	Place a priority on ensuring that each site has the minimum resources identified in the Design Guidelines for its park classification before adding new amenities over and above the minimum required resources for the park classification.
Policy LT-8.16	If amenities are no longer needed (eg, due to fiscal constraints, environmental reasons, change in community needs) give strong consideration to redesigning the amenity to serve community needs.
Goal LT-9 Regional Approach to Open Space	A regional approach to providing and preserving open space and providing open space and recreational services, facilities and amenities for the broader community.
Policy LT-9.2	Support public and private efforts in and around Sunnyvale to acquire, develop and maintain open space and recreation facilities and services for public use.
Policy LT-9.4	Support a regional trail system by coordinating with adjacent jurisdictions to facilitate trail connections wherever possible.
Policy CC-1.2	Continue to enhance the visibility, accessibility and use of the San Francisco Bay on the City's northern boundary.
Policy CC-1.8	Provide and encourage the incorporation of art – both functional and decorative – in public and private development <ul style="list-style-type: none"> • CC-1.8d Identify and consider opportunities for art components to park development and/or redevelopment
Goal CC-4 Accessible and Attractive Public Facilities	Provide public facilities which are accessible, attractive, and add to the enjoyment of the physical environment.
Policy CC-4.1	Ensure that Sunnyvale's public facilities are easily identified, accessible, attractive and representative of the community's values and aspirations.
Policy CC-4.2	Maintain beautiful and comfortable outdoor public places which provide a shared

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	sense of ownership and belonging for Sunnyvale residents, business owners and visitors.
Policy CC-4.3	Work with outside government agencies to achieve attractive public and quasi-public facilities consistent with the quality of development in Sunnyvale.
Goal CC-10 High-Quality Recreation Programming	<p>The city strives to develop and implement passive and active recreation and enrichment programs that :</p> <ul style="list-style-type: none"> • Provide constructive opportunities for fitness, well-being, healthy coping and stress management • Highlight cultural practices and traditions reflective of a diverse community • Promote activities that foster interaction among diverse parts of the community • Encourage creative expression, education, skill development and personal enrichment • Contribute to the creation of a healthy community; and promote community participation in recreation for all ages.
Policy CC-10.1	Design programs to meet the needs of residents, allowing for non-resident participation as long as it does not take away from opportunities or resources for residents (Exceptions are services that are intended to serve as profit centers, such as golf and tennis, which are addressed in the Fiscal Management Sub-Element).
Policy CC-10.2	Provide school-aged youth-oriented recreation and enrichment programs and services during non-school hours.
Policy CC-10.3	Provide recreation and enrichment programs and services for school-aged youth during school hours, such as during recess or lunch periods, only by special agreement approved by City Council.

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Policy CC-10.4	Use entrepreneurial strategies to identify and reach new markets for programs, services and revenue generation, and to strengthen relationships within existing markets.
Policy CC-10.5	Develop and implement programs in order to meet the developmental and social needs of specific targeted populations (e.g., youth, teens, seniors, disabled).
Policy CC-10.6	Leverage available resources by pursuing co-funded and/or cooperative agreements for provision and maintenance of programs, facilities, and services, in order to maximize benefits to the community. Partners may include, but are not limited to, school districts, non-profit groups, governmental agencies and businesses.
Policy CC-10.7	Encourage the use of recreational and open space facilities and services for educational activities of schools that serve Sunnyvale students first, and secondarily the schools that serve students of surrounding communities.
Goal CC-11 Wide Range of Recreation Programming	The City strives to ensure equal opportunities for participation and to provide for a range of structured and unstructured uses, and a variety of general and special interest uses in parks and facilities. The city also provides a wide range of program choices, open space, amenities and facility offerings to meet the recreational needs of a diverse and changing population, including identified subgroups and special populations. Policies related to acquiring and/or developing open space facilities and amenities are also included here. Competing interests and finite resources, however, require the City to set some priorities.
Policy CC-11.1	Give priority to the following services, facilities and amenities that <ul style="list-style-type: none"> • are not readily available through other providers within or near Sunnyvale. • benefiting under-served populations as identified in the U.S. Census and

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	<p>through community input.</p> <ul style="list-style-type: none"> • fulfill a basic need or teach basic skills (e.g., non-competitive, developmental sports instruction such as learn to swim given priority over competitive sports programming). • in which the community demonstrates interest. • benefit a greater number of residents. • can be used by multiple users or serve multiple purposes.
Policy CC-11.2	Give priority to governmental entities, schools and non-profits.
Policy CC-11.3	<p>Give priority to acquiring/developing open space and recreational amenities and programs in areas:</p> <ul style="list-style-type: none"> • Which are heavily impacted by daytime or business use • Where similar amenities and programs do not already exist • Where the current number of households within specified distances relying on the open space or recreational amenity is greater. • Where the projected number of households within specified distances which will be relying on the open space or recreational amenity is greater • Where the needs are greatest and/or which will meet the greatest needs. • At school sites that, if sold by the District for purposes other than open space, would represent a serious loss to the City’s ability to meet its open space and recreation goals.
Policy CC-11.4	Give priority to safety first when performing maintenance on facilities and within the open space system, followed by usability and then by attractiveness, recognizing that attractiveness is often a factor in usability.
Goal CC-12 Maximum Access to Recreation Services, Facilities and Amenities	The city strives to maximize access to all of its services, facilities and amenities.

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Policy CC-12.1	Locate services at schools, parks and recreational facilities throughout the city and utilize strategies, such as the mobile recreation concept, to make programs geographically accessible.
Policy CC-12.2	Comply with the Americans with Disabilities Act, and create an environment of inclusion in all recreation programs where reasonable.
Policy CC-12.3	Provide recreation and enrichment programs, services, facilities and amenities to underserved areas and/or populations of the City. Underserved areas and/or populations could be due to factors such as: geography, gender, economics or ethnicity.
Policy CC-12.4	Allow opportunities for non-reserved, unstructured use of open space.
Policy CC-12.5	Allow in-line skating, bicycles and skateboarding on hard-surface sidewalks and pathways throughout the park system, as long as the skateboarders, cyclists and in-line skaters do not pose a hazard to themselves or other forms of traffic such as pedestrians or joggers.
Policy SN-3.5	Facilitate the safe movement of pedestrians, bicyclists and vehicles.
Policy SN-5.1	Assure that equipment and facilities are provided and maintained to meet reasonable standards of safety, dependability and compatibility with fire service operations.
Goal SN-6 Effective Emergency Response Capability	Provide effective response capability for emergency medical events and other non-fire incidents that may directly endanger the lives, property and well-being of the community.
Policy SN-6.1	Provide immediate life support to those threatened by situations requiring emergency medical services or rescue.
Goal SN-9 Acceptable Limits for Community Noise	Maintain or achieve acceptable limits for the levels of noise generated by land use operations and single-events

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Policy EM-1.2	Maximize recycled water use for all approved purposes both within and in areas adjacent to the city, where feasible.
Policy EM-2.1	Lower overall water demand through the effective use of water conservation programs in the residential, commercial, industrial and landscaping arenas.
Goal EM-11 Improved Air Quality	Improve Sunnyvale’s air quality and reduce the exposure of its citizens to air pollutants
Policy EM-11.1	The City should actively participate in regional air quality planning
Policy EM-11.2	Utilize land use strategies to reduce air quality impact, including opportunities for citizens to live and work in close proximity.
From Council Policy Manual – Solid Waste Management	
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.
Goals	Description
From Analysis of Issues, Constraints and Opportunities (Geosyntec/Crawford, 2013)	
Maintain Burrowing Owl Habitat	The 2012 annual summary report prepared for the City (Chromczak, February 4,

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	2013) states that the City recognizes the importance of this sensitive species and is working to protect the burrowing owl and enhance suitable habitat at the Sunnyvale Landfill and Water Pollution Control Plant.
Small Particle (PM-2.5) Generation	Implementation of dust control measures to minimize airborne small particle (PM-2.5) generation.
Ease of Maintenance	Construction of all improvements to be able to withstand, with minimal maintenance, some differential settlement over time.
Minimize Penetration of / Excavation of Landfill Cap	(Need to define comfort level for amount of disturbance / reconstruction as tradeoff for different types of improvements).
Minimize Settlement of Landfill Materials and Effects on Structures	Minimize potential damage to existing structures from additional loading; minimize potential effects to new structures through design features for new structures.
Relations / Agreements With Yahoo! And Other Businesses	Maintain and build relations and agreements with corporate neighbors.

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From Community and City Staff	
Increased Interconnectivity	Increased interconnectivity in Sunnyvale is needed. Trails and pathways can help connect parks to other key destinations in Sunnyvale, including schools, special use areas, commercial areas, transportation hubs, residential nodes, among others.
Bay Trail Connection	Improving Bay Trail connections and signage at the closed landfill.
Sports Field Access Analysis	The sports field analysis also indicated a need for more single-use fields, given the shift to year round play in many sports.
Design Guideline Analysis	This analysis helped identify a need for tot lots for children ages 2-5 and play areas for children 6-12 in various park sites, along with sports courts to support outdoor basketball, tennis, and volleyball.
Specialized Facility Review	There is an increased need for trails, teen space, a nature classroom, and outdoor active recreation facilities.
Program Analysis	Demographic trends suggest a need to serve a growing and increasingly diverse population of older adults (50+) and seniors. Additionally, special events/cultural celebrations, nature programs/environmental education, and outdoor active recreation were areas where the public expressed a desire for expanded services.
Special Use Areas – Minimum Resources	Features with a citywide or regional draw
Special Use Areas – Additional Resources May Include	<ul style="list-style-type: none"> • Game sports fields – complexes or stadiums (baseball, cricket, football, rugby, soccer, softball, multi-purpose) • Specialized active recreation facilities (indoor tennis center, climbing wall, ice rink, gymnasium) • Specialized cultural and arts facilities (theater, ballroom, dance studio, kiln room, etc...) • Sports courts (basketball court, tennis court, volleyball court)

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	<ul style="list-style-type: none"> • Other recreation resources (skate park, horseshoe pits, bocce court, shuffleboard lane, lawn bowling, mini skate park) • Commercial ventures or features • Concessions • Large-scale interactive water feature • Water park or swimming pool complex • Historical or interpretive facilities • Botanical garden or arboretum • Other facilities or resources with communitywide draw • Community garden • Off-leash dog area • Stage/amphitheatre • Infrastructure to support large community events • Natural areas • Memorials • Trees • Maintenance facilities • Multi-use trails, pedestrian trails • Restrooms • Parking
<p>Inclusive of Flora/Fauna</p>	<p>Maintain habitat for flora and fauna species that have been listed as species of special concern by the California State Department of Fish and Game.</p>

**Table 2. Animal Assisted Happiness – Layout and Assumptions
Sunnyvale Landfill
City of Sunnyvale, California**

Descriptions provided by AAH Sept 2, 2013 – Revised with assumptions for final layout on 09/13/13

ITEM	Short-Term	Long-Term
<p>Facilities: 10'x10' sheds for each small animal pen. Each 10(w)x10(l)x8(h) shed should be complimented by an average ¼ acre pasture area (smaller animals that do not need the larger pasture will give their pasture area to larger animals that need more). In front of each Shed would be an interaction area, roughly 10x20 that serves as the interaction area for that animal type. Behind the shed would lead to the pasture area.</p> <p>Feed/Equip/Vehicle Storage: 30x80x15 3-sided storage barn. This would be used to store hay, feed, John Deere Gator, outbound visit van with trailer, and waste management bin</p> <p>Office: An office is desirable for up to 4 employees to share. A small conf room should be available.</p> <p>Caretaker residence: In order to provide utmost care for the animals, a caretaker's residential home would be ideal. If feasible, a modular home with attached utilities is preferred; should this not be feasible a RV home that can be driven to a waste disposal site every month would suffice. An option is also to place the caretaker residence at the bottom if hookups are more feasible.</p> <p>Parking: Primary parking on the facility should have client priority. Employees and volunteers, if there is not enough parking, should park below. School buses are expected and the parking area should be designed for easy 'in/out' in mind. The parking area should accommodate 2 bus parking on the</p>	<p>1 shed needed each for:</p> <ul style="list-style-type: none"> • Mini horses • Mini donkeys • Alpacas • Full size goats • Dwarf goats • Sheep • Pig • Rabbits • Chickens • Guinea pigs <p>Feed/Equip/Vehicle Storage:</p> <ul style="list-style-type: none"> • Can use multiple smaller structures with fencing <p>Office:</p> <ul style="list-style-type: none"> • Would not need an office immediately <p>Caretaker residence:</p> <ul style="list-style-type: none"> • ~33 ft RV <p>Parking:</p>	<p>Long term:</p> <ul style="list-style-type: none"> • Horses for therapeutic riding (in addition to pasture, would need a small area, 80'x120') • Arena would require ~3" of additional footing; should be level but may be able to have a small 1 degree slope. <p>Horses would also need a 24x48, 4-stall barn that would serve as a staging area, tack room, and equipment/maintenance room for the arena.</p> <p>Feed/Equip/Vehicle Storage: Rather than one 30'x80' barn, assume two 30' x 40' barns for constructability purposes.</p> <p>Office:</p> <ul style="list-style-type: none"> • 12x24 mobile office, used to share office space with employees and a conf room; 2 ft above ground <p>Caretaker residence:</p> <ul style="list-style-type: none"> • ~800 sq ft module home; 2 ft above ground <p>Parking:</p>

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<p>outer edge (west and south sides) of the parking area, allowing for easier turning radius back out onto the road. The central and east side can support standard vehicle parking with ~20 parking slots.</p> <p>Rest Area/Fund Raising: Rest areas are used by families and groups that come visit and want to take a break, typically a lunch break. But the larger space needed it to hold AAH’s annual fund raising event. Assumptions used for space needed is 8’x8’ per attendee.</p> <p>Fencing: Perimeter fencing would be 6’ high chain link fencing. Interior fencing would be ~4’ high. Fencing material would depend on the animal. Horses may use pole fencing. Goats and sheep would need wooded rails. Smaller animals would require chain link or even smaller holed fencing. Interior fencing is designed to keep each and every animal contained. Perimeter fencing is a second line of security should the interior fencing fail; the perimeter fencing would also be a deterrent to keep external animals and people out.</p>	<p>Rest Area/Fund Raising:**</p> <ul style="list-style-type: none"> • 12,800 sq ft for 200 people • Picnic tables can be placed in this area for visit rests <p>Fencing</p>	<p>Rest Area/Fund Raising:**</p> <ul style="list-style-type: none"> • 25,600 sq ft for 400 people • Picnic tables can be placed in this area for visit rests <p>Fencing</p>
<p>Accessibility. Clients should have easiest access with physically handicapped (eg wheelchairs) should have easiest access. AAH personnel and volunteers could park away from the facility if there is no space available.</p>		

**City staff is assuming no large special events would be permitted at the Landfill. AAH would need to find another venue for fundraising events.

Utilities / Services

ITEM	Short-Term	Long-Term
<p>Desire would be to have electricity, water and sewer available. Should any services prove to be infeasible, alternatives are available.</p>		

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<p>Electrical: Electrical requirements are somewhat minimal. Animals would not need electricity. Maintenance would require occasional electricity. Should an office and/or caretaker be available, electricity would be highly desirable.</p> <p>Water: Drinking water is desirable. Animal drinking water may be non-potable. Occasional tools cleaning may use non-potable water.</p> <p>Sewer; Sewer is desirable.</p>	<p>Electrical: <ul style="list-style-type: none"> Generators can be used in the interim should electricity not be available. </p> <p>Water: <ul style="list-style-type: none"> Pump non-potable water to a water tank. Potable water can be provided via “Alhambra” type 5-gal jugs </p> <p>Sewer: <ul style="list-style-type: none"> Portable restroom and handwash stations can be used </p>	<p>Electrical: <ul style="list-style-type: none"> Solar panels would be used to provide electrical needs. Assume full electrical service provided rather than solar as sole electrical source. </p> <p>Water: <ul style="list-style-type: none"> Water lines brought to the hill </p> <p>Sewer: <ul style="list-style-type: none"> Sewer lines brought to the hill </p>
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**Table 3. Animal Assisted Happiness & Park Enhancements Cost Estimate
Sunnyvale Landfill
City of Sunnyvale, California**

Number	Item	Unit Pricing	Qty	Unit	Cost
1	Design, Management, and Inspection (25% of construction cost - items 2 through 58)	\$ 1,271,132 ls	1	ls	\$ 1,271,132
2	Mobilization/Demobilization (5% of construction cost - items 3 through 58)	\$ 242,120 ls	1	ls	\$ 242,120
3	Landfill Gas System- Well Decommission ¹	\$ 2,500 per well	4	per well	\$ 10,000
4	Landfill Gas System- Piping Decommission ²	\$ 25 lf	1,000	lf	\$ 25,000
5	Landfill Gas System- Well Replacement	\$ 15,000 per well	4	per well	\$ 60,000
6	Landfill Gas System- Piping Replacement ³	\$ 40 lf	1,000	lf	\$ 40,000
7	Landfill Gas System- Gas Well Fence Protection ⁴	\$ 1,900 each	34	each	\$ 64,600
8	Grading- Soil Import for Site Leveling/Protection with placement and compaction	\$ 43 cy	18,000	cy	\$ 774,000
9	Parking Lot- Aggregate Base	\$ 2.70 sf	15,000	cy	\$ 40,500
10	Parking Lot- 8 oz nonwoven geotextile	\$ 0.25 sf	15,000	sf	\$ 3,750
11	Perimeter Fence- 6-ft High Chain Link Fence ⁵	\$ 32 lf	1,250	lf	\$ 40,000
12	Telltale Geotextile - 8 oz nonwoven geotextile	\$ 0.25 sf	113,854	sf	\$ 28,464
13	Hydroseeding (pasture and common areas only)	\$ 0.16 sf	70,000	sf	\$ 11,200
14	Bathroom (top of West Hill)	\$ 182,000 ls	1	each	\$ 182,000
15	Bathroom - Concrete Slab (50' x 50' x 1')	\$ 40,000 ls	1	each	\$ 40,000
16	Bathroom - Passive Gas Venting and Monitoring System	\$ 42,000 ls	1	each	\$ 42,000
17	Pre-manufactured Structures- Office (360 sf)	\$ 52,000 ls	1	each	\$ 52,000
18	Pre-manufactured Structures- Concrete Slab (Office) (24' x 35' x 1')	\$ 17,000 ls	1	ls	\$ 17,000
19	Pre-manufactured Structures - Passive Gas Venting and Monitoring System - Office	\$ 28,000 ls	1	each	\$ 28,000
20	Pre-manufactured Structures- Caretaker Facility (1,200 sf)	\$ 24,000 ls	1	each	\$ 24,000
21	Pre-manufactured Structures- Concrete Slab (Caretaker Facility) (800 sf)	\$ 59,000 ls	1	ls	\$ 59,000
22	Pre-manufactured Structures (Caretaker) - Passive Gas Venting and Monitoring System	\$ 31,000 ls	1	each	\$ 31,000
23	Pre-manufactured Structures- Portable Pens	\$ 10,621 each	10	each	\$ 106,210
24	Portable Fencing- Interaction Areas ⁶	\$ 31 lf	500	lf	\$ 15,500
25	Pre-manufactured Structures- Barns	\$ 55,000 each	3	each	\$ 165,000
26	Pre-manufactured Structures- Concrete Slab (Barns)	\$ 34,000 each	3	each	\$ 102,000
27	Portable Fencing- Arena ⁷	\$ 31 lf	400	lf	\$ 12,400
28	Park Enhancements- Trail Improvement - surfacing	\$ 3.50 lf	16,690	lf	\$ 58,415
29	Park Enhancements- Trail Construction - construction and surfacing	\$ 31.50 lf	2,320	lf	\$ 73,080
30	Park Enhancements- Wooden Stepped Trails	\$ 51 lf	1,429	lf	\$ 72,879
31	Park Enhancements- Overlooks	\$ 0.50 sf	8,010	sf	\$ 4,005
32	Park Enhancements- Benches Site Preparation	\$ 600 each	14	each	\$ 8,400
33	Park Enhancements- Benches ⁸	\$ 1,900 each	14	each	\$ 26,600
34	Park Enhancements- Shade Structures Site Preparation	\$ 5,000 each	7	each	\$ 35,000
35	Park Enhancements- Shade Structures ⁹	\$ 4,600 each	7	each	\$ 32,200
36	Park Enhancements- Picnic Tables Site Preparation	\$ 2,000 each	3	each	\$ 6,000
37	Park Enhancements- Picnic Tables ¹⁰	\$ 2,100 each	3	each	\$ 6,300
38	Park Enhancements- Waste Receptacles	\$ 4,800 each	15	each	\$ 72,000
39	Park Enhancements- Bike Racks Site Preparation	\$ 800 each	6	each	\$ 4,800
40	Park Enhancements- Bike Racks	\$ 850 each	6	each	\$ 5,100
41	Park Enhancements- Signs Site Preparation	\$ 300 each	20	each	\$ 6,000
42	Park Enhancements- Signs	\$ 1,000 each	20	each	\$ 20,000
43	Park Enhancements- Parcourse Stations Site Preparation	\$ 6,000 ls	1	ls	\$ 6,000
44	Park Enhancements- Parcourse Stations	\$ 50,000 ls	1	ls	\$ 50,000
45	Soil Berm for Perimeter Fence - 3-ft high	\$ 43 cy	2,200	cy	\$ 94,600
46	Dog Park Perimeter Fence- 4-ft High Chain Link Fence ¹¹	\$ 28 lf	2,200	lf	\$ 61,600
47	Bathroom (NW corner of Recycle Hill)	\$ 182,000 each	1	each	\$ 182,000
48	Bathroom - Concrete Slab (50' x 50' x 1')	\$ 40,000 each	1	each	\$ 40,000
49	Bathroom - Passive Gas Venting and Monitoring System	\$ 42,000 each	1	each	\$ 42,000
50	Pavement repair - for utilities along North side of Recycle Hill	\$ 23 sf	3,970	sf	\$ 91,310
51	Utility Connection- Water	\$ 100.00 lf	2,200	lf	\$ 220,000
52	Utility Connection- Sewer ¹²	\$ 145.50 lf	2,400	lf	\$ 349,200
53	Utility Connection- Sewer - along North side of Recycle Hill ¹³	\$ 176.00 lf	450	lf	\$ 79,200
54	Utility Connection- Electrical ¹⁴	\$ 138.50 lf	3,450	lf	\$ 477,825
55	Guardrail	\$ 38 lf	2,913	lf	\$ 110,694
56	Access Road- Soil Import for Road Widening (12-ft driving surface)	\$ 157.50 lf	2,913	lf	\$ 458,798
57	Access Road- Aggregate Base (12-ft-driving surface)	\$ 2.00 sf	34956	sf	\$ 69,912
58	Access Road- Asphalt Concrete (12-ft-driving surface)	\$ 3.00 sf	34956	sf	\$ 104,868
59	Construction Contract Contingency (10% of Items 3 through 58)	\$ 484,241 ls	1	ls	\$ 484,241
	CONTINGENCY (20% of Items 1 through 59)	\$ 1,367,981 ls	1	ls	\$ 1,367,981

Total: \$ 8,207,883

Breakdown of Cost Estimate

Items	Item	Cost
1	Design, Management, and Inspection (25% of construction cost - items 2 through 58)	\$ 1,271,132
2	Mobilization/Demobilization (5% of construction cost - items 3 through 58)	\$ 242,120
3 through 27	Items Related to AAH	\$ 1,973,624
28 through 46	Items Related to Park Enhancements	\$ 642,979
47 through 58	Items Related to Infrastructure Improvements	\$ 2,225,807
59	Construction Contract Contingency (10% of Items 3 through 58)	\$ 484,241
	CONTINGENCY (20% of Items 1 through 59)	\$ 1,367,981

Total: \$ 8,207,883

Notes:

1. Gas well decommissioning by grouting the length of the well in place.
2. Landfill gas pipe decommission involves disconnecting the laterals from main line, and grouting the pipes in place.
3. Assumes that the same amount of pipe that was removed, will need to be re-installed at a different location. Replacement piping quantities, if necessary, to be estimated by a landfill gas engineer.

4. Assumes that 13 gas wells on the West Hill, even though not affected by AAH operations, will need to be protected. Also includes 9 wells on Recycle Hill and 12 wells on South Hill which will remain in place. All wells to be protected using a 10-ft square chain-link fence with an access gate.
5. Does not include cost of earthen berm for fence because assumption is that adding sufficient fill to address minimum separation with final cover.
6. Includes approximately 50 ft of fence for each of the ten animal interaction areas.
7. Includes approximately 400 ft to cover the entire perimeter of the proposed arena.
8. Includes 6 benches for West Hill, and 4 benches each for Recycle and South Hills.
9. Includes 3 shade structures for West Hill, and 2 structures each for Recycle and South Hills.
10. Includes 3 picnic tables for West Hill.
11. Includes cost of fence installation for both delineated dog parks, as well as both sides of the access road for Recycle Hill (i.e., to protect the proposed burrowing owl enhancement areas from dogs).
12. Assumes a sewer pipe diameter of 6 inches from the bathroom at the top of the hill to the bathroom at the bottom of Recycle Hill.
13. Assumes a sewer pipe diameter of 8 inches from the bathroom at the bottom of Recycle Hill to the existing utility connection point.
14. Installation and material costs for electrical conductors not included.

**Table 4. Baseball/Soccer Fields & Park Enhancements Cost Estimate
Sunnyvale Landfill
City of Sunnyvale, California**

Number	Item	Unit Pricing	Qty	Cost
1	Design, Management, and Inspection (25% of construction cost - items 2 through 64)	\$ 3,212,285 ls	1 ls	\$ 3,212,285
2	Mobilization/Demobilization (5% of construction cost - items 3 through 64)	\$ 611,864 ls	1 ls	\$ 611,864
	<i>Estimated Volume of Excavation (Final Cover and Waste Fill)</i>		120000 cy	
3	Grading- Off Haul Excavated Waste	\$ 63 cy	64,000 cy	\$ 4,032,000
4	Landfill Gas System- Well Decommission ¹	\$ 2,500 per well	7 wells	\$ 17,500
5	Landfill Gas System- Piping Decommission ²	\$ 25 lf	2,000 lf	\$ 50,000
6	Landfill Gas System- Well Replacement	\$ 15,000 each	7 each	\$ 105,000
7	Landfill Gas System- Piping Replacement ³	\$ 40 lf	2,000 lf	\$ 80,000
8	Landfill Gas System- Gas Well Fence Protection ⁴	\$ 1,900 each	31 each	\$ 58,900
	<i>Soil Management - Assumes Soil Segregation Existing Final Cover</i>			
9	Segregate and stockpile excavated material (Final Cover)	\$ 9.10 cy	56,000 cy	\$ 509,600
10	Place foundation layer soil	\$ 13.00 cy	28,000 cy	\$ 364,000
11	Place and compact low-permeability soil	\$ 19.00 cy	14,000 cy	\$ 266,000
12	Place vegetative layer soil	\$ 13.00 cy	14,000 cy	\$ 182,000
13	Sports Fields- Reconstruct Drainage Swales	\$ 90 ft	2,200 ft	\$ 198,000
14	Sports Fields- Drainage Geocomposite ⁵	\$ 0.70 sf	220,000 sf	\$ 154,000
15	Sports Fields- Drainage Pipes ⁵	\$ 37 lf	3,000 lf	\$ 111,000
16	Sports Fields- Artificial Turf ⁵	\$ 7.50 sf	220,000 sf	\$ 1,650,000
17	Sports Fields- Bleachers	\$ 2,000 each	8 each	\$ 16,000
18	Sports Fields- Foul Poles (2) and Distance Indicators	\$ 2,200 set	1 set	\$ 2,200
19	Sports Fields- Backstop Fence	\$ 3,500 each	1 each	\$ 3,500
20	Sports Fields- Goals (Soccer)	\$ 3,500 set	1 set	\$ 3,500
21	Sports Field- Miscellaneous Items (e.g., trash cans, score board, etc.)	\$ 8,000 ls	1 ls	\$ 8,000
22	Sports Field - installation of the Items 17 through 21	\$ 4,915 day	2 day	\$ 9,830
23	Sports Fields- Lighting System with Posts	\$ 550,000 ls	1 ls	\$ 550,000
24	Parking Lot- Aggregate Base	\$ 2.70 sf	40,000 sf	\$ 108,000
25	Parking Lot- 8 oz nonwoven geotextile	\$ 0.25 sf	40,000 sf	\$ 10,000
26	Soil Berm for Perimeter Fence - 3-ft high	\$ 43 lf	1,500 lf	\$ 64,500
27	Perimeter Fence- 4-ft High Chain Link Fence ⁵	\$ 21.50 lf	1,500 lf	\$ 32,250
28	Hydroseeding (including common areas adjacent to the fields)	\$ 0.16 sf	70,000 sf	\$ 11,200
29	Bathroom (top of West Hill)	\$ 182,000 each	1 each	\$ 182,000
30	Bathroom - Concrete Slab (50' x 50' x 1')	\$ 40,000 each	1 each	\$ 40,000
31	Bathroom - Passive Gas Venting and Monitoring System	\$ 42,000 each	1 each	\$ 42,000
32	Pre-manufactured Structures- Storage Shed	\$ 74,000 each	1 each	\$ 74,000
33	Pre-manufactured Structures- Concrete Slab (Storage Shed)	\$ 72,000 each	1 each	\$ 72,000
34	CQA and CQA Report for Agency Submittal (3% of items 3 through 33)	\$ 270,209 ls	1 ls	\$ 270,209
35	Park Enhancements- Trail Improvement - surfacing	\$ 3.50 lf	16,025 lf	\$ 56,088
36	Park Enhancements- Trail Construction - construction and surfacing	\$ 31.50 lf	2,320 lf	\$ 73,080
37	Park Enhancements- Wooden Stepped Trails	\$ 51 lf	1,187 lf	\$ 60,537
38	Park Enhancements- Overlooks	\$ 0.50 sf	19,200 sf	\$ 9,600
39	Park Enhancements- Benches Site Preparation	\$ 600 each	14 each	\$ 8,400
40	Park Enhancements- Benches ⁶	\$ 1,900 each	14 each	\$ 26,600
41	Park Enhancements- Shade Structures Site Preparation	\$ 5,000 each	7 each	\$ 35,000
42	Park Enhancements- Shade Structures ⁷	\$ 4,600 each	7 each	\$ 32,200
43	Park Enhancements- Picnic Tables Site Preparation	\$ 2,000 each	6 each	\$ 12,000
44	Park Enhancements- Picnic Tables ⁸	\$ 2,100 each	6 each	\$ 12,600
45	Park Enhancements- Waste Receptacles	\$ 4,800 each	15 each	\$ 72,000
46	Park Enhancements- Bike Racks Site Preparation	\$ 800 each	6 each	\$ 4,800
47	Park Enhancements- Bike Racks	\$ 850 each	6 each	\$ 5,100
48	Park Enhancements- Signs Site Preparation	\$ 300 each	6 each	\$ 1,800
49	Park Enhancements- Signs	\$ 1,000 each	20 each	\$ 20,000
50	Park Enhancements- Parcourse Stations Site Preparation	\$ 6,000 ls	1 ls	\$ 6,000
51	Park Enhancements- Parcourse Stations	\$ 50,000 ls	1 ls	\$ 50,000
52	Soil Berm for Perimeter Fence - 3-ft high	\$ 43 cy	2,200 cy	\$ 94,600
53	Dog Park Perimeter Fence- 4-ft High Chain Link Fence	\$ 28 lf	2,200 lf	\$ 61,600
54	Bathroom (NW corner of Recycle Hill)	\$ 182,000 each	1 each	\$ 182,000
55	Bathroom - Concrete Slab (50' x 50' x 1')	\$ 40,000 each	1 each	\$ 40,000
56	Bathroom - Passive Gas Venting and Monitoring System	\$ 42,000 each	1 each	\$ 42,000
57	Pavement repair - for utilities along North side of Recycle Hill	\$ 23 sf	3,970 sf	\$ 91,310
58	Utility Connection- Water	\$ 100.00 lf	1,700 lf	\$ 170,000
59	Utility Connection- Sewer ⁹	\$ 145.50 lf	1,950 lf	\$ 283,725
60	Utility Connection- Sewer - along North side of Recycle Hill ¹⁰	\$ 176.00 lf	450 lf	\$ 79,200
61	Utility Connection- Electrical ¹¹	\$ 138.50 lf	4,950 lf	\$ 685,575
62	Guardrail	\$ 38 lf	2,913 lf	\$ 110,694
63	Access Road- Soil Import for Road Widening (12-ft driving surface)	\$ 157.50 lf	2,913 lf	\$ 458,798
64	Access Road- Aggregate Base (12-ft-driving surface)	\$ 2.00 sf	34956 sf	\$ 69,912
65	Access Road- Asphalt Concrete (12-ft-driving surface)	\$ 3.00 sf	34956 sf	\$ 104,868
66	Construction Contract Contingency (10% of Items 3 through 65)	\$ 1,223,728 ls	1 ls	\$ 1,223,728
	CONTINGENCY (20% of Items 1 through 66)	\$ 3,457,030 ls	1 ls	\$ 3,457,030

Total: \$ 20,742,183

Breakdown of Cost Estimate

Items	Item	Cost
1	Design, Management, and Inspection (25% of construction cost - items 2 through 64)	\$ 3,212,285
2	Mobilization/Demobilization (5% of construction cost - items 3 through 64)	\$ 611,864
3 through 34	Items Related to Sports Fields	\$ 9,277,190
35 through 53	Items Related to Park Enhancements	\$ 642,005
54 through 65	Items Related to Infrastructure Improvements	\$ 2,318,082
66	Construction Contract Contingency (10% of Items 3 through 65)	\$ 1,223,728
	CONTINGENCY (20% of Items 1 through 66)	\$ 3,457,030

Total: \$ 20,742,183

Notes:

- Gas well decommissioning by grouting the length of the well in place.
- Landfill gas pipe decommission involves disconnecting the laterals from main line, and grouting the pipes in place.
- Assumes that the same amount of pipe that was removed, will need to be re-installed at a different location. Replacement piping quantities, if necessary, to be estimated by a landfill gas engineer.
- Assumes that 13 gas wells on the West Hill, even though not affected by the Sports Fields, will need to be protected. Also includes 9 wells on Recycle Hill and 12 wells on South Hill which will remain in place. All wells to be protected using a 10-ft square chain-link fence with an access gate.
- Includes cost of installation.
- Includes 6 benches for West Hill, and 4 benches each for Recycle and South Hills.
- Includes 3 shade structures for West Hill, and 2 structures each for Recycle and South Hills.
- Includes 6 picnic tables for West Hill.
- Assumes a sewer pipe diameter of 6 inches from the bathroom at the top of the hill to the bathroom at the bottom of Recycle Hill.
- Assumes a sewer pipe diameter of 8 inches from the bathroom at the bottom of Recycle Hill to the existing utility connection point.
- Installation and material costs for electrical conductors not included.

**Table 5. Bike Skills Park & Park Enhancements Cost Estimate
Sunnyvale Landfill
City of Sunnyvale, California**

Number	Item	Unit Pricing	Qty	Cost
1	Design, Management, and Inspection (25% of construction cost - items 2 through 33)	\$ 432,822 ls	1	\$ 432,822
2	Mobilization/Demobilization (5% of construction cost - items 3 through 33)	\$ 82,442 ls	1	\$ 82,442
3	Landfill Gas System- Gas Well Fence Protection ¹	\$ 1,900 each	38 each	\$ 72,200
4	Bike skills Features- Soil Import and Placement	\$ 43 cy	3,000 cy	\$ 129,000
5	Bike skills Features- Ladders, Rocks, Trunks, etc.	\$ 25,000 ls	1 ls	\$ 25,000
6	Soil Berm for Perimeter Fence - 3-ft high	\$ 43 cy	1,100 cy	\$ 47,300
7	Perimeter Fence- Installation	\$ 32 lf	1,100 lf	\$ 35,200
8	Park Enhancements- Trail Improvement - surfacing	\$ 3.50 lf	17,450 lf	\$ 61,075
9	Park Enhancements- Trail Construction - construction and surfacing	\$ 31.50 lf	2,330 lf	\$ 73,395
10	Park Enhancements- Wooden Stepped Trails	\$ 51 lf	1,429 lf	\$ 72,879
11	Park Enhancements- Overlooks	\$ 0.50 sf	9,450 sf	\$ 4,725
12	Park Enhancements- Benches Site Preparation	\$ 600 each	14 each	\$ 8,400
13	Park Enhancements- Benches ²	\$ 1,900 each	14 each	\$ 26,600
14	Park Enhancements- Shade Structures Site Preparation	\$ 5,000 each	8 each	\$ 40,000
15	Park Enhancements- Shade Structures ³	\$ 4,600 each	8 each	\$ 36,800
16	Park Enhancements- Picnic Tables Site Preparation	\$ 2,000 each	3 each	\$ 6,000
17	Park Enhancements- Picnic Tables ⁴	\$ 2,100 each	3 each	\$ 6,300
18	Park Enhancements- Waste Receptacles	\$ 4,800 each	15 each	\$ 72,000
19	Park Enhancements- Bike Racks Site Preparation	\$ 800 each	6 each	\$ 4,800
20	Park Enhancements- Bike Racks	\$ 850 each	6 each	\$ 5,100
21	Park Enhancements- Signs Site Preparation	\$ 300 each	6 each	\$ 1,800
22	Park Enhancements- Signs	\$ 1,000 each	20 each	\$ 20,000
23	Park Enhancements- Parcourse Stations Site Preparation	\$ 6,000 ls	1 ls	\$ 6,000
24	Park Enhancements- Parcourse Stations	\$ 50,000 ls	1 ls	\$ 50,000
25	Soil Berm for Perimeter Fence - 3-ft high	\$ 43 cy	2,200 cy	\$ 94,600
26	Dog Park Perimeter Fence- 4-ft High Chain Link Fence	\$ 28 lf	2,200 lf	\$ 61,600
27	Bathroom (NW corner of Recycle Hill)	\$ 182,000 each	1 each	\$ 182,000
28	Bathroom - Concrete Slab (50' x 50' x 1')	\$ 40,000 each	1 each	\$ 40,000
29	Bathroom - Passive Gas Venting and Monitoring System	\$ 42,000 each	1 each	\$ 42,000
30	Pavement repair - for utilities along North side of Recycle Hill	\$ 23 sf	3115 sf	\$ 71,645
31	Utility Connection- Water ⁵	\$ 100.00 lf	1900 lf	\$ 190,000
32	Utility Connection- Sewer - along North side of Recycle Hill ⁶	\$ 145.50 lf	450 lf	\$ 65,475
33	Utility Connection- Electrical ⁷	\$ 138.50 lf	700 lf	\$ 96,950
34	Construction Contract Contingency (10% of Items 3 through 33)	\$ 164,884 ls	1 ls	\$ 164,884
	CONTINGENCY (20% of Items 1 through 34)	\$ 465,798 ls	1 ls	\$ 465,798

Total: \$ 2,794,791

Breakdown of Cost Estimate

Items	Item	Cost
1	Design, Management, and Inspection (25% of construction cost - items 2 through 33)	\$ 432,822
2	Mobilization/Demobilization (5% of construction cost - items 3 through 33)	\$ 82,442
3 through 7	Items Related to Bike Skills Park	\$ 308,700
8 through 26	Items Related to Park Enhancements	\$ 652,074
27 through 33	Items Related to Infrastructure	\$ 688,070
34	Construction Contract Contingency (10% of Items 3 through 33)	\$ 164,884
	CONTINGENCY (20% of Items 1 through 34)	\$ 465,798

Total: \$ 2,794,791

Notes:

- Assumes that 17 gas wells within the West Hill, even though not affected by Park Enhancements, will need to be protected. Also includes 9 wells on Recycle Hill and 12 wells on South Hill which will also remain in place.
- Includes 6 benches for West Hill, and 4 benches each for Recycle and South Hills.
- Includes 4 shade structures for West Hill, and 2 structures each for Recycle and South Hills.
- Includes 3 picnic tables for West Hill.
- Includes approximately 1,800 ft of pipe to provide potable water at the top of the hill for dust control purposes.
- Assumes a sewer pipe diameter of 6 inches from the bathroom at the bottom of Recycle Hill to the existing utility connection point.
- Installation and material costs for electrical conductors not included.

**Table 6. Park Enhancements Cost Estimate
Sunnyvale Landfill
City of Sunnyvale, California**

Number	Item	Unit Pricing	Qty	Cost
1	Design, Management, and Inspection (25% of construction cost - items 2 through 29)	\$ 338,518 ls	1	\$ 338,518
2	Mobilization/Demobilization (5% of construction cost - items 3 through 29)	\$ 64,480 ls	1	\$ 64,480
3	Landfill Gas System- Gas Well Fence Protection ¹	\$ 1,900 each	38 each	\$ 72,200
4	Park Enhancements- Trail Improvement - surfacing	\$ 3.50 lf	17,450 lf	\$ 61,075
5	Park Enhancements- Trail Construction - construction and surfacing	\$ 31.50 lf	2,330 lf	\$ 73,395
6	Park Enhancements- Wooden Stepped Trails	\$ 51 lf	1,429 lf	\$ 72,879
7	Park Enhancements- Overlooks	\$ 0.50 sf	17,500 sf	\$ 8,750
8	Park Enhancements- Benches Site Preparation	\$ 600 each	14 each	\$ 8,400
9	Park Enhancements- Benches ²	\$ 1,900 each	14 each	\$ 26,600
10	Park Enhancements- Shade Structures Site Preparation	\$ 5,000 each	12 each	\$ 60,000
11	Park Enhancements- Shade Structures ³	\$ 4,600 each	12 each	\$ 55,200
12	Park Enhancements- Picnic Tables Site Preparation	\$ 2,000 each	9 each	\$ 18,000
13	Park Enhancements- Picnic Tables ⁴	\$ 2,100 each	9 each	\$ 18,900
14	Park Enhancements- Waste Receptacles	\$ 4,800 each	15 each	\$ 72,000
15	Park Enhancements- Bike Racks Site Preparation	\$ 800 each	6 each	\$ 4,800
16	Park Enhancements- Bike Racks	\$ 850 each	6 each	\$ 5,100
17	Park Enhancements- Signs Site Preparation	\$ 300 each	6 each	\$ 1,800
18	Park Enhancements- Signs	\$ 1,000 each	20 each	\$ 20,000
19	Park Enhancements- Parcourse Stations Site Preparation	\$ 6,000 ls	1 ls	\$ 6,000
20	Park Enhancements- Parcourse Stations	\$ 50,000 ls	1 ls	\$ 50,000
21	Soil Berm for Perimeter Fence - 3-ft high	\$ 43 cy	2,200 cy	\$ 94,600
22	Dog Park Perimeter Fence- 4-ft High Chain Link Fence	\$ 28 lf	2,200 lf	\$ 61,600
23	Bathroom (NW corner of Recycle Hill)	\$ 182,000 each	1 each	\$ 182,000
24	Bathroom - Concrete Slab (50' x 50' x 1')	\$ 40,000 each	1 each	\$ 40,000
25	Bathroom - Passive Gas Venting and Monitoring System	\$ 42,000 each	1 each	\$ 42,000
26	Pavement repair - for utilities along North side of Recycle Hill	\$ 23 sf	2690 sf	\$ 61,870
27	Utility Connection- Water	\$ 100.00 lf	100 lf	\$ 10,000
28	Utility Connection- Sewer - along North side of Recycle Hill ⁵	\$ 145.50 lf	450 lf	\$ 65,475
29	Utility Connection- Electrical ⁶	\$ 138.50 lf	700 lf	\$ 96,950
30	Construction Contract Contingency (10% of Items 3 through 30)	\$ 128,959 ls	1 ls	\$ 128,959
	CONTINGENCY (20% of Items 1 through 30)	\$ 338,518 ls	1 ls	\$ 338,518

Total: \$ 2,160,070

Breakdown of Cost Estimate

Items	Item	Cost
1	Design, Management, and Inspection (25% of construction cost - items 2 through 29)	\$ 338,518
2	Mobilization/Demobilization (5% of construction cost - items 3 through 29)	\$ 64,480
3 through 22	Items Related to Park Enhancements	\$ 791,299
23 through 29	Items Related to Infrastructure	\$ 498,295
30	Construction Contract Contingency (10% of Items 3 through 30)	\$ 128,959
	CONTINGENCY (20% of Items 1 through 30)	\$ 338,518

Total: \$ 2,160,070

Notes:

1. Assumes that 17 gas wells within the West Hill, even though not affected by Park Enhancements, will need to be protected. Also includes 9 wells on Recycle Hill and 12 wells on South Hill which will remain in place.
2. Includes 6 benches for West Hill, and 4 benches each for Recycle and South Hills.
3. Includes 8 shade structures for West Hill, and 2 structures each for Recycle and South Hills.
4. Includes 9 picnic tables for West Hill.
5. Assumes a sewer pipe diameter of 6 inches from the bathroom at the bottom of Recycle Hill to the existing utility connection point.
6. Installation and material costs for electrical conductors not included.

**Table 7. Summary of Access and Parking Needs for Land Use Options
Sunnyvale Landfill
City of Sunnyvale, California**

	West Hill Features	Vehicle Access	Pedestrian Access	Bicycle Access	Parking
Option 1	Animal Assisted Happiness	Assume vehicular access to the top of the West Hill for: <ul style="list-style-type: none"> • Visitors • Employees • Emergency Vehicles • School Buses • Delivery / waste collection 	Trails from street level to top of West Hill	Trails from street level to top of West Hill	Facility lot at top of hill to provide parking for: <ul style="list-style-type: none"> • Visitors • Employees • School Buses
Option 2	Baseball/Soccer Field	Assume vehicular access at the top of West Hill for: <ul style="list-style-type: none"> • Visitors • Employees • Emergency Vehicles • Delivery / waste collection 	Trails from street level to top of West Hill	Trails from street level to top of West Hill	Facility lot at top of hill to provide approximately 100 spaces for visitors and maintenance vehicles.
Option 3	Bike Skills Park	Assume no vehicular access to the top of West Hill for visitors. Vehicular access needed for maintenance / waste collection	Trails from street level to top of West Hill	Trails from street level to top of West Hill	No parking at the top of West Hill. Parking at the bottom of the hill or offsite.
Option 4	Park Enhancements	Assume no vehicular access to the top of West Hill for visitors. Vehicular access needed for maintenance / waste collection.	Trails from street level to top of West Hill	Trails from street level to top of West Hill	No parking at the top of West Hill. Parking at the bottom of the hill or offsite.

**Table 7. Summary of Access and Parking Needs for Land Use Options
Sunnyvale Landfill
City of Sunnyvale, California**

	Recycle Hill Features	South Hill Features	Vehicle Access	Pedestrian Access	Bicycle Access	Parking
Option 1	Park Enhancements (including Dog Park)	Park Enhancements	Assume no vehicular access to the top of the hills for visitors. Vehicular access needed for maintenance / waste collection	Trails from street level to the top of the hills	Trails from street level to the top of the Recycle Hill. No bicycle access to South Hill.	No parking at the top of the hills. Parking at the bottom of the hills or offsite.
Option 2	Park Enhancements (including Dog Park)	Park Enhancements	Assume no vehicular access to the top of the hills for visitors. Vehicular access needed for maintenance / waste collection	Trails from street level to the top of the hills	Trails from street level to the top of the Recycle Hill. No bicycle access to South Hill.	No parking at the top of the hills. Parking at the bottom of the hills or offsite.
Option 3	Park Enhancements (including Dog Park)	Park Enhancements	Assume no vehicular access to the top of the hills for visitors. Vehicular access needed for maintenance / waste collection	Trails from street level to the top of the hills	Trails from street level to the top of the Recycle Hill. No bicycle access to South Hill.	No parking at the top of the hills. Parking at the bottom of the hills or offsite.
Option 4	Park Enhancements (including Dog Park)	Park Enhancements	Assume no vehicular access to the top of the hills for visitors. Vehicular access needed for maintenance / waste collection	Trails from street level to the top of the hills	Trails from street level to the top of the Recycle Hill. No bicycle access to South Hill.	No parking at the top of the hills. Parking at the bottom of the hills or offsite.

**Table 8. Parking Space Calculations for Bike Skills Park with Park Enhancements Option
Sunnyvale Landfill
City of Sunnyvale, California**

Developed Park Areas	Sq ft	# Spaces / sq ft	
		@1 / 2,500 sq ft	@1 / 5,000 sq ft
<u>Park Enhancements Option</u>			
West Hill picnic, overlook, benches			
Overlook	3,600		
Existing bench area @ Bay Trail	500		
Top deck picnic area	11,250		
Benches NE corner top deck	225		
Picnic Area SW corner top deck	2,500		
Trail spur benches SW corner	225		
	<u>18,300</u>	7.3	3.7
Recycle Hill - Dog Park Areas	27,476	11.0	5.5
South Hill - parcourse, benches 30' x 850 '	25,500	10.2	5.1
		29	14
<u>Bike Skills Park Option with Park Enhancements</u>			
Bike Skills Park	73,724		
subtract top deck picnic area	11,250		
	<u>62,474</u>	25.0	12.5
Total spaces needed (including Park Enhancements totals) =		54	27

Undeveloped Open Space	Total sq ft	Minus developed sq ft	Acreage	# Spaces @ 1 per 5 acres	
West Hill	1,453,138	1,434,838	32.94	6.6	6.6
Recycle Hill	294,126	266,650	6.12	1.2	1.2
South Hill	469,183	443,683	10.19	2.0	2.0
				10	10
			Total spaces needed:	10	10

Total spaces needed for developed park areas plus undeveloped open space

Park Enhancements Option	38	24
Bike Skills Park Option with Park Enhancements	63	37

**Table 9. Parking Space Calculations for AAH with Park Enhancements Option
Sunnyvale Landfill
City of Sunnyvale, California**

Calculation of parking spaces needed exclusive of AAH facility

Developed Park Areas	Sq ft	# Spaces / sq ft	
		@1 / 2,500 sq ft	@1 / 5,000 sq ft
Park Enhancements Option			
West Hill picnic, overlook, benches			
Overlook Area	3,600		
Existing bench area @ Bay Trail	500		
Picnic Area SW corner top deck	2,500		
Trail spur benches north slope	225		
Trail spur benches SW corner	225		
	7,050	2.8	1.4
Recycle Hill - Dog Park Areas	27,476	11.0	5.5
South Hill - parcourse, benches 30' x 850'	25,500	10.2	5.1
Total spaces needed:		24	12

Undeveloped Open Space	Total sq ft	Minus developed sq ft*	Acreage	# Spaces @ 1 per 5 acres	
West Hill	1,453,138	1,332,242	30.58	6.1	6.1
Recycle Hill	294,126	266,650	6.12	1.2	1.2
South Hill	469,183	443,683	10.19	2.0	2.0
Total spaces needed:				9	9

*For West Hill, developed sq ft includes developed park areas plus area of AAH facility
AAH Facility = 113,846 sq ft

Total spaces needed for developed park areas plus undeveloped open space outside AAH facility	33	21
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**Table 10. Parking Space Calculations for Baseball/Soccer Fields with Park Enhancements Option
Sunnyvale Landfill
City of Sunnyvale, California**

Calculation of parking spaces needed exclusive of Baseball / Soccer Field facility

Developed Park Areas	Sq ft	# Spaces / sq ft	
		@1 / 2,500 sq ft	@1 / 5,000 sq ft
<u>Park Enhancements Option</u>			
West Hill picnic, overlook, benches			
Overlook and Picnic Area	20,000		
Existing bench area @ Bay Trail	500		
Trail spur benches SW corner	225		
	<u>20,725</u>	8.3	4.1
Recycle Hill - Dog Park Areas	27,476	11.0	5.5
South Hill - parcourse, benches 30' x 850'	25,500	10.2	5.1
Total spaces needed:		29	15

Undeveloped Open Space

	Total sq ft	Minus developed sq ft*	Acreage	# Spaces @ 1 per 5 acres	
West Hill	1,453,138	1,127,413	25.88	5.2	5.2
Recycle Hill	294,126	266,650	6.12	1.2	1.2
South Hill	469,183	443,683	10.19	2.0	2.0
Total spaces needed:				8	8

*For West Hill, developed sq ft includes developed park areas plus area of baseball / soccer facility
Baseball / Soccer Facility = 305,000 sq ft

**Total spaces needed for developed park areas
plus undeveloped open space outside Baseball / Soccer Facility**

38	23
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