



Office of the City Manager

CONSENT CALENDAR  
June 23, 2009

To: Honorable Mayor and Members of the City Council

From:  Phil Kamlarz, City Manager

Submitted by: Claudette Ford, Director, Public Works

Subject: Establishing a Bay-Friendly Landscaping Policy for City Projects

RECOMMENDATION

Adopt a Resolution authorizing the City Manager to implement a Bay-Friendly Landscaping (BFL) Policy for City projects, and the Director of Public Works to designate a BFL Compliance Official.

FISCAL IMPACTS OF RECOMMENDATION

The City receives funding and support services from the Alameda County Waste Management Authority (Stopwaste.org or Authority) to support the Authority's non-residential and new landfill diversion programs. In order for the City to remain eligible to receive these funds and services for FY 2010 and beyond, the City must adopt and implement a Bay-Friendly Landscaping Policy for City projects. The funding and services that would be lost if the policy is not adopted and implemented include:

1. Annual disbursement of Waste Import Mitigation Funds, valued in FY 2009 at \$74,264,
2. Eligibility to apply for \$10,000 to \$25,000 in grants per project to implement Bay-Friendly Landscaping in City projects, and
3. Free project design assistance and training from the Authority for City staff.

Staff estimates the City's cost for implementing a BFL Policy will be approximately \$5,500 per year (direct labor plus soft costs). This is based on the project review and supporting coordination with the Authority by the City's Compliance Official. It is estimated that the Compliance Official will review 1 to 3 projects per year that meet the 10,000 square feet threshold for BFL.

CURRENT SITUATION AND ITS EFFECTS

The Authority is imposing requirements on its members to increase diversion of material from the landfill. The BFL policy is one of these requirements and is attached as Exhibit A. The Authority established June 30, 2009 as the firm deadline for its member agencies to adopt a BFL policy. If adopted, the policy will allow the City to conform to the requirements and maintain its eligibility for funds and services provided by the

Authority. If not adopted, the City will lose access to approximately \$74,000 in grant funding from the Authority for FY 09-10.

The Policy would require that the City use the Authority's BFL scorecard to assess compliance with BFL practices for every City project involving greater than 10,000 square feet of landscaping. A copy of the scorecard is included in Exhibit B. The scorecard assigns points toward complying with BFL principles. The minimum score to achieve compliance is 60 points out of possible 219 points. Staff believes that the City will be able to meet the minimum 60 point score (and therefore comply with the Authority's goals) through practices and policies currently in place.

Also on tonight's agenda is a request for Council to approve a Bay Friendly/Green Building grant application for \$65,000 to offset costs on construction of the new Animal Shelter. The Bay Friendly Landscaping policy must be in place in order for this grant to be accepted by the agency.

#### BACKGROUND

The Public Works Department and the Parks, Recreation and Waterfront Department will be the departments most affected by a BFL policy. To facilitate compliance with the policy, the following practices and policies are already in place: Environmentally Friendly Purchasing Policy (Resolution No. 60,196-N.S.), Green Building (Resolution No. 62,284-N.S.), Kyoto Protocol Endorsement (Resolution No. 62,783-N.S.), Precautionary Principle (Resolution No. 62,259-N.S.), Revised Pest Management Policy (Resolution No. 54,319-N.S.), Zero Waste Goal (Resolution 62,849-N.S.), Bee Habitats and Pollinator-Friendly Vegetation (Resolution No. 64,376-N.S.), Preservation and Restoration of Natural Watercourses (Ordinance 6,956-N.S.) and Storm water NPDES Permit (CAS0029831). There will be little or no additional cost involved to employ the BFL practices in designs and in the field. Additionally, eight of the City's Landscape Gardeners are certified in Bay-Friendly gardening. Adoption of this resolution would provide Parks and Recreation Division the opportunity to apply for grants to off set part of the cost of their projects.

#### RATIONALE FOR RECOMMENDATION

Staff believes the funding and services provided by the Authority further the City's goals and represent a vital source of funding for the goals. The cost to implement the BFL policy is acceptable and should be worked into the budgeting process. The Public Works Commission (PWC), Parks and Recreation Commission (PRC), and Zero Waste Commission (ZWC) have reviewed the BFL policy and support the City Council's adoption of this resolution.

#### ALTERNATIVE ACTIONS CONSIDERED

Not adopting a BFL policy would eliminate a minimum of \$74,000 in grant funds available to the City in FY 2010. It is anticipated that this would continue each year that a BFL policy is not adopted.

CONTACT PERSON

Jeffrey Egeberg, Manager of Engineering, 981-6400

Susan Ferrera, Parks Superintendent, Parks Recreation & Waterfront, 981-6660

Attachments:

1: Resolution

Exhibit A: Draft Bay-Friendly Landscaping Policy

Exhibit B: Bay Friendly Landscape Scorecard

RESOLUTION NO. ##,###-N.S.

BAY-FRIENDLY LANDSCAPING POLICY FOR CITY PROJECTS

WHEREAS, the City finds that conventional landscaping within the City can contribute to environmental degradation, excessive consumption of fossil fuels, landfill waste and pollution; and

WHEREAS, the City finds that green landscaping is a whole-systems approach that seeks to conserve natural resources, reduce waste, minimize water and pesticide use, storm water runoff and watershed pollution; and

WHEREAS, the City finds that the benefit of green landscaping include minimized maintenance, the creation of wildlife habitat, protection of local ecosystems through the use of native plant species, and the protection of the San Francisco Bay watershed; and

WHEREAS, in Alameda County, the organization StopWaste.Org has taken the lead in defining and promoting environmentally friendly landscaping for the commercial, institutional and residential sectors and has developed Bay-Friendly Landscape Guidelines for professional landscapers and the Bay-Friendly Gardening Guide for residents that promotes green landscaping; and

WHEREAS, the City finds that requiring new City landscapes and City projects to incorporate Bay-Friendly Landscape Guidelines is necessary and appropriate to achieving the benefits of green landscaping in the City; and

WHEREAS, the Alameda County Waste Management Authority requires cities to adopt a Bay-Friendly Landscape Policy for new municipal landscape and major landscape renovations as a condition of receiving grants and services valuable to the City.

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the City Manager is authorized to implement a Bay-Friendly Landscaping (BFL) Policy for City Projects, and for the Director of Public Works to designate a BFL Compliance Official.

Exhibits

- A: Draft Bay-Friendly Landscaping Policy
- B: Bay Friendly Landscape Scorecard

EXHIBIT A  
**BAY-FRIENDLY LANDSCAPING POLICY**

PURPOSE AND INTENT

To promote economic and environmental health in the City, it is essential that the City itself, through the design, construction, and maintenance of its own projects, provide leadership to both the private and public sectors by incorporating Bay-Friendly landscaping practices. One immediate and meaningful way to do this is to require the integration of Bay-Friendly landscaping strategies in City projects.

**DEFINITIONS**

"Bay-Friendly Landscape Guidelines" means the most recent version of guidelines developed by StopWaste.Org for use in the professional design, construction and maintenance of Landscapes. City staff shall maintain the most recent version of the Bay-Friendly Guidelines at all times.

"Bay-Friendly Landscaping Scorecard" means the most recent version of the Bay-Friendly Landscaping points system developed by StopWaste.Org. City staff shall maintain the most recent version of the Bay-Friendly Landscaping Scorecard at all times.

"City Landscape Project" means any new construction or renovation of a Landscape owned or maintained by a City Department or Agency.

"Covered Project" means all new or redevelopment or Renovation projects that include Landscapes that equal or exceed 10,000 square feet, and are owned or maintained by a City Department or Agency

"Bay-Friendly Landscaping Compliance Official" means the designated staff person(s) authorized and responsible for implementing this Policy.

"Initiated" means officially identified and substantially funded to offset the costs associated with the project.

"Landscape" means the parcel area less the building pad and includes all planted areas and hardscapes (i.e. driveway, parking, paths and other paved areas).

"Renovation" means any change, addition, or modification to an existing Landscape.

"Traditional Public Works Projects" means heavy construction projects such as pump stations, flood control improvements, roads, and bridges, as well as traffic lights, sidewalks, bike paths, bus stops, and associated infrastructure on City owned and maintained property.

## **STANDARD FOR COMPLIANCE**

1. All Covered Projects with landscapes initiated on or after August 1, 2009 shall meet the most recent minimum Bay Friendly Landscape Scorecard points as recommended and verified by StopWaste.Org or its designee.
2. For the purposes of reducing operation and maintenance costs in all City facilities, Covered Projects that do not meet the threshold that triggers compliance with the requirements of this Policy are required to meet as many Bay-Friendly Landscaping Scorecard points as practicable and are required to complete and submit the Bay-Friendly Landscaping Scorecard to StopWaste.Org as a way of documenting the green building practices that have been incorporated into the project.
3. The Public Works Department shall regularly review the project specifications used in bidding Traditional Public Works Projects and building or facilities projects to include environmentally friendly practices and Bay-Friendly landscape practices applicable.
4. Bay-Friendly landscaping requirements will be incorporated into the appropriate design, construction, maintenance and development agreement documents prepared for the applicable Covered Projects
5. The Director of Public Works shall designate an appropriate Bay-Friendly Landscaping Compliance Official(s) who shall have the responsibility to administer and monitor compliance with the Bay-Friendly landscaping requirements set forth in this Policy, and to grant waivers or exemptions from the requirements.
6. The Bay-Friendly Landscaping Compliance Official will coordinate activities with the person(s) responsible for implementation of the City's Environmental Purchasing Policy

## **UNUSUAL CIRCUMSTANCES**

Compliance with the provisions of this Policy may be waived in unusual circumstances where the City Council has, by resolution, found and determined that the public interest would not be served by complying with such provisions.

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 Bay Friendly Landscaping, EXHIBIT B



scorecard tracks Bay-Friendly features incorporated into the design and construction of landscapes. The recommended minimum requirements for a Bay-Friendly Landscape earn a total of 60 points or more and complete the 9 required practices indicated by the "R" in the columns labeled "Possible Points".

Date:

Current Point Total:

Enter Project Name Here		Possible Points								
Site Planning		Points Achieved	Landscape Locally	Less to Landfill	Nurture the Soil	Conserve Water	Conserve Energy	Water and Air Quality	Create Wildlife Habitat	
<b>1. Select and evaluate the site carefully</b>										
<input type="checkbox"/>	a. Submit the completed Bay-Friendly Site Analysis form before 100% design development documents	0	5							
<input type="checkbox"/>	b. The site is located within an urban growth boundary and avoids environmentally sensitive sites	0	3							
<input type="checkbox"/>	c. The site development results in the clean up of a contaminated site (i.e. brownfield) or is in a designated redevelopment area	0							3	
<b>2. Consider the potential for fire</b>										
<input type="checkbox"/>	a. For sites adjacent to fire sensitive open space or wetlands only: Submit a Fire Mitigation Plan	0	5							
<b>3. Keep plant debris on site</b>										
	a. Produce mulch from plant debris									
<input type="checkbox"/>	i. Design documents specify areas under tree & shrub canopies and at least 10 feet away from hard surfaces and storm drains, to be used as a leaf repository for mulch	0		1						
<input type="checkbox"/>	ii. Construction documents specify that of the trees identified for removal, some are chipped for use as mulch onsite	0		1						
	b. Produce compost from plant debris									
<input type="checkbox"/>	i. A site for composting is included in landscape plans. Systems for composting up to and including 3 cubic yards at one time	0		1						
<input type="checkbox"/>	ii. Systems for composting more than 3 and up to 10 yards at one time (total 2 points)	0		1						
<input type="checkbox"/>	iii. Systems 10 cubic yards or larger (total 3 points)	0		1						
<b>4. Reduce and recycle waste</b>										
<input type="checkbox"/>	a. An easily accessible area is dedicated to the collection and storage of materials for recycling	0						2		
<b>5. Minimize site disturbance</b>										
<input type="checkbox"/>	a. On greenfield sites, limit site disturbance to protect topography, vegetation and hydrology (total 3 points)	0	1					1	1	

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<input type="checkbox"/>	b. On previously developed sites, restore vegetation and hydrology (total 3 points)	0	1				1	1
<input type="checkbox"/>	6. Provide water and/or shelter for wildlife such as birdhouse, bathhouses, boulders, logs, wood piles, large native shrubs or trees	0						1
<b>7. Conserve or restore natural areas &amp; wildlife corridors</b>								
<input type="checkbox"/>	a. The landscape is designed to preserve 80% of existing mature healthy trees and penalties for destruction of protected trees are included in construction contract	0						2
<input type="checkbox"/>	b. The landscape is designed to increase open space compared to its previous use and/or to connect it to other open space or wildlife corridors	0						2
<input type="checkbox"/>	c. Create or protect a diverse plant buffer of low maintenance vegetation along creeks, shorelines or monocultured landscaped areas	0						2
Site Planning Subtotal, out of possible 33 points:		<b>0</b>						

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Stormwater and Site Drainage	Possible Points
<b>1. Minimize impervious surfaces</b>	
<input type="checkbox"/> a. Permeable paving, gravel or other porous surfaces are installed for <ul style="list-style-type: none"> <li><input type="checkbox"/> i. 25% OR</li> <li><input type="checkbox"/> ii. 33% (total 3 points) OR</li> <li><input type="checkbox"/> iii. 50% of the paved area (total 5 points)</li> </ul>	0
<input type="checkbox"/> b. No impervious surfaces directly connect to the storm drain	2
<b>2. Design a system to capture and filter storm water</b>	
<input type="checkbox"/> a. Capture and filter runoff from parking lots into landscape beds, vegetated swales or other landscape stormwater bmps	2
<input type="checkbox"/> b. Incorporate landscape measures, including vegetated swales, infiltration planters, detention basins and/or stormwater wetlands, that are designed to capture and filter:	
<input type="checkbox"/> i. 85% of average annual stormwater runoff OR	2
<input type="checkbox"/> ii. 100% of average annual runoff (total 4 points)	2
<input type="checkbox"/> c. Bioswales specify flat bottoms of at least 18 inches across and/or rock cobble at points of concentrated flow	1
<input type="checkbox"/> d. Turf is not specified in bioswales	1
<input type="checkbox"/> e. Direct rain water from all down spouts to planters, swales or landscaped areas	1
Stormwater and Site Drainage Subtotal, out of possible 16 points:	<b>0</b>
Earthwork and Soil Health	Possible Points
<b>1. Assess the soil and test drainage</b>	
<input type="checkbox"/> a. Submit laboratory soil analysis results and recommendations for compost and natural fertilizers (total 3 points)	0 2 1
<b>2. Remove and store topsoil before grading</b>	
<input type="checkbox"/> a. The removal, temporary storage, and re-spreading of topsoil is specified in the landscape design documents AND specifications include a maximum topsoil pile height of 6 feet, as well as measures to protect the stored topsoil from erosion	0 2
<b>3. Protect soil from compaction</b>	
<input type="checkbox"/> a. Grading specifications and construction plans call for the installation and maintenance of fencing to prohibit parking or materials staging in areas identified for protection	0 2
<input type="checkbox"/> b. Design documents specify that soil is not worked when wet	0 1
<b>4. Aerate compacted soils</b>	
<input type="checkbox"/> a. Design documents include specification to alleviate compacted soils to a depth of at least 8 inches, before planting, for all landscaped areas that can not be protected during construction	0 1
<input type="checkbox"/> b. Design documents include specification to alleviate compacted soils to a depth of at least 12 inches, before planting, for all landscaped areas that can not be protected during construction (total 2 points)	0 1

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5. Feed soils naturally & avoid synthetic fertilizers									
<input type="checkbox"/> a. Fertilizers or soil amendment materials prohibited by Organic Materials Research Institute (OMRI) in its generic materials list are not allowed in the construction of the project	0			1					
6. Mulch									
<input type="checkbox"/> a. <b>Required:</b> Planting specifications and plans indicate that after construction, all soil on site is protected with a minimum of 3 inches of mulch						R			
7. Amend the soil with compost before planting									
a. Quality compost is specified as the soil amendment, at the rates indicated by a soil analysis, to bring the soil organic matter content to a minimum of:									
<input type="checkbox"/> i. <b>Required:</b> 3.5% by dry weight OR 1 inch of quality compost OR									R
<input type="checkbox"/>									

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<input type="checkbox"/>	ii. 5% by dry weight OR (total 2 points)	0			1	1
<input type="checkbox"/>	iii. Specify the use of compost from processors that participate in the US Composting Council's Standard Testing Assurance program	0			1	
<b>8. Use IPM design and construction practices to prevent pest problems</b>						
<input type="checkbox"/>	a. Sheet mulch is specified for weed control (total 3 points)	0			1	2
<input type="checkbox"/>	b. Synthetic chemical pre-emergents are prohibited	0				2
<b>9. Keep soil &amp; organic matter where it belongs</b>						
<input type="checkbox"/>	a. Compost berms or blankets or socks are specified for controlling erosion (total 2 points)	0			1	1
<b>MATERIALS</b>						
Earthwork and Soil Health Subtotal, out of possible 21 points: <b>0</b>						
<b>1. Use salvaged items &amp; recycled content materials</b>						
a. Non-plant landscape materials are salvaged or made from recycled content materials or FSC certified wood:						
<input type="checkbox"/>	i. Decking (100% of non structural materials)	0			1	
<input type="checkbox"/>	ii. Fencing (100% of non structural materials)	0			2	
<input type="checkbox"/>	iii. Outdoor furniture such as bike racks, benches, tables and chairs (50% minimum)	0			2	
<input type="checkbox"/>	iv. Planters or retaining walls (100% of either or both)	0			1	
<input type="checkbox"/>	v. Parking stops or lighting/sign posts (100% of either or both)	0			1	
<input type="checkbox"/>	vi. Play structures or surfaces (100% of either or both)	0			2	
<input type="checkbox"/>	vii. Edging or decorative glass mulch (100% of either or both)	0			1	
<input type="checkbox"/>	b. A minimum 25% of recycled aggregate (crushed concrete) is specified for walkway, driveway, roadway base and other uses	0			2	
c. Replace Portland cement in concrete with flyash or slag						
<input type="checkbox"/>	i. 20%	0			1	
<input type="checkbox"/>	ii. 25% (total 2 points)	0			1	
d. Purchased compost and/or mulch is recycled from local, organic materials such as plant or wood waste						
<input type="checkbox"/>	i. 100% of compost OR 100% of mulch	0			1	
<input type="checkbox"/>	ii. 100% of both (total 2 points)	0			1	
<b>2. Reduce and recycle landscape construction waste</b>						
<input type="checkbox"/>	a. <b>Required:</b> Divert 50% of landscape construction and demolition waste.				R	
<input type="checkbox"/>	b. Divert 100% of asphalt and concrete and 65% of remaining materials OR	0			2	
<input type="checkbox"/>	c. Divert 100% of asphalt and concrete and 80% of remaining materials (total 4 points)	0			2	
<input type="checkbox"/>	d. Donate unused materials	0			1	
<b>3. Reduce the heat island effect with cool site techniques</b>						
<input type="checkbox"/>	a. at least 50% of the paved site area includes cool site techniques	0				2

<b>4. Design lighting carefully</b>									
<input type="checkbox"/>	a. Low energy fixtures are specified for all site lighting								2
b. Photovoltaic is specified for site lighting									
<input type="checkbox"/>	i. all path lighting is solar powered								1
<input type="checkbox"/>	ii. 50% of all other site lighting is solar powered								2
<input type="checkbox"/>	iii. 100% of all other site lighting is solar powered (total 4 points)								2
<input type="checkbox"/>	c. Reduce light pollution and trespass; exterior luminaries emit no light above horizontal or are Dark Sky certified								1
<input type="checkbox"/>	d. The site and exterior building lighting does not cast direct beam illumination onto adjacent properties or right of ways								1

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5. Choose and maintain equipment for fuel conservation									
<input type="checkbox"/>	a. Specify solar powered pump(s) for water features	0						1	
6. Specify low embodied energy products									
<input type="checkbox"/>	a. 100% of any stone and non-concrete hardscape materials are produced within 500 miles of the project site	0						2	
7. Use integrated pest management									
<input type="checkbox"/>	a. Design documents include construction specifications that require integrated pest management	0						2	
8. Use organic pest management									
<input type="checkbox"/>	a. Design documents include construction specifications that prohibit the use of pesticides that are prohibited by Organic Materials Research Institute in its generic materials list (total 4 points)	0							2
Materials Subtotal, out of possible 39 points:		0							
<b>PLANTING</b>									Possible Points
1. Select appropriate plants: choose & locate plants to grow to natural size and avoid shearing									
<input type="checkbox"/>	a. <b>Required:</b> No species will require shearing						R		
<input type="checkbox"/>	b. Plants specified can grow to mature size within space allotted them	0					1		
2. Select appropriate plants: do not plant invasive species									
<input type="checkbox"/>	a. <b>Required:</b> None of the species listed by Cal-IPC as invasive in the San Francisco Bay Area are included in the planting plan						R		
3. Grow drought tolerant CA native, Mediterranean or climate adapted plants									
a. Specify California native, Mediterranean or other climate adapted plants that require occasional, little or no summer water for:									
<input type="checkbox"/>	i. <b>Required:</b> 75% of all non-turf plants							R	
<input type="checkbox"/>	ii. 100% of all non-turf plants	0						2	
<input type="checkbox"/>	b. 100% of the non-turf plant palette needs no irrigation once established (total 5 points)	0						3	
4. Minimize the lawn									
<input type="checkbox"/>	a. Turf is not specified in areas less than 8 feet wide or in medians, unless irrigated with subsurface or low volume irrigation	0						2	
<input type="checkbox"/>	b. Turf shall not be installed on slopes exceeding 10%	0						2	
c. Total irrigated area specified as turf is limited to:									
<input type="checkbox"/>	i. <b>Required:</b> A maximum of 25%, with sports or multiple use fields exempted.							R	
<input type="checkbox"/>	ii. A maximum of 15%, with sports or multiple use fields exempted	0						2	
<input type="checkbox"/>	iii. No turf is specified (total 5 points)	0						3	
5. Implement hydrozoning									
<input type="checkbox"/>									

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<input type="checkbox"/> a. Group plants by water requirements and sun exposure and select plant species that are appropriate for the water use within each zone and identify hydrozones on the irrigation plan (with separate irrigation valves for differing water needs, if irrigation is required)	0				2	
<b>6. Provide shade to moderate building temperatures</b>						
<input type="checkbox"/> a. Protect existing trees and/or specify new trees such that 50% or more of west facing glazing and walls will be shaded (at 4 pm in September) by the trees at their mature size AND trees must be deciduous	0				2	
<b>7. Plant trees</b>						
<input type="checkbox"/> a. At least 50% of the paved site area is shaded by trees or other vegetation	0				2	
<input type="checkbox"/> b. At least one tree species is a large stature species (total 2 points)	0				1	1
<b>8. Diversify</b>						
<input type="checkbox"/> a. Landscapes less than 20,000 square feet shall have a minimum of:						

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<input type="checkbox"/>	i. 20 distinct species OR	0				1
<input type="checkbox"/>	ii. 30 distinct plant species (total 3 points)	0				2
	b. Landscapes with 20,000 to 43,560 square feet (1 acre) shall include a minimum of:					
<input type="checkbox"/>	i. 30 distinct plant species OR	0				1
<input type="checkbox"/>	ii. 40 distinct species OR (total 2 points)	0				1
<input type="checkbox"/>	iii. 50 distinct plant species (total 4 points)	0				2
	c. Landscapes of greater than 1 acre shall include a minimum of 40 distinct plant species AND					
<input type="checkbox"/>	i. one additional species per acre over 1 acre OR	0				2
<input type="checkbox"/>	ii. two additional species per acre over 1 acre (total 4 points)	0				2
	<b>9. Choose California natives first</b>					
<input type="checkbox"/>	a. CA natives are specified for 50% of non-turf plants	0				2
	Planting Subtotal, out of possible 36 points:	0				
	<b>IRRIGATION</b>					Possible Points
	<b>1. Design for on-site rainwater collection, recycled water and/or graywater use</b>					
<input type="checkbox"/>	a. Irrigation systems and/or all ornamental uses of water (ponds, fountains, etc) are plumbed for recycled water where it is available from a municipal source	0			3	
<input type="checkbox"/>	b. Design a system that can store and use rainwater and/or graywater to satisfy a percentage of the landscape irrigation requirements:					
<input type="checkbox"/>	i. 10% OR	0			3	
<input type="checkbox"/>	ii. 50% OR (total 4 points)	0			1	
<input type="checkbox"/>	iii. 100% of dry season landscape water requirements satisfied with harvested rainwater (total 5 points)	0			1	
	<b>2. Design and install high efficiency irrigation systems</b>					
<input type="checkbox"/>	a. <b>Required:</b> Specify weather based (automatic, self adjusting) irrigation controller(s) that includes a moisture and/or rain sensor shutoff					R
<input type="checkbox"/>	b. <b>Required:</b> Sprinkler and spray heads are not specified for areas less than 8 feet wide					R
	c. Specify and install irrigation equipment with an operational distribution uniformity of 80% of greater, such as drip or bubblers for:					
<input type="checkbox"/>	i. 75% of non-turf irrigated areas	0				2
<input type="checkbox"/>	ii. 100% of non-turf irrigated areas ( total 5 points)	0				3
<input type="checkbox"/>	d. For all turf areas: Specify and install equipment with a precipitation rate of 1 inch or less per hour and an operational distribution uniformity of 70% or greater	0				2
<input type="checkbox"/>	e. Design and install irrigation system that will be operated at 70% of reference ET	0				3
	<b>3. Install a dedicated meter for landscape water use or install a submeter</b>					
<input type="checkbox"/>	a. A dedicated irrigation meter or submeter is specified to track irrigation water	0				2
	Irrigation Subtotal, out of possible 20 points:	0				

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MAINTENANCE		Possible Points
1. Keep plant debris on site		
a. Grasscycle		
<input type="checkbox"/> i. Ongoing maintenance includes grasscycling (grass clippings left on the lawn after mowing) for all lawns from April through October, or longer. Sports turf may be excluded "in season" when clippings will interfere with play	0	2
b. Produce mulch from plant debris		
<input type="checkbox"/> i. Ongoing maintenance requires that leaves and/or plant debris less than 4 inches (including cut or chipped woody prunings) be re-incorporated into the mulch layer of landscaped areas away from storm drain	0	2
c. Produce compost from plant debris		
<input type="checkbox"/>		

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<input type="checkbox"/>	i. Ongoing maintenance includes composting plant debris on site	0	3		
<b>2. Separate plant debris for clean green discounts</b>					
<input type="checkbox"/>	a. Ongoing maintenance requires all exported plant debris be separated from other refuse and taken to a facility where it will be used to produce compost or mulch	0	3		
<b>3. Protect soil from compaction</b>					
<input type="checkbox"/>	a. Ongoing maintenance requires that soil is not worked when wet, generally between October and April	0	1		
<b>4. Feed soils naturally &amp; avoid synthetic fertilizers</b>					
<input type="checkbox"/>	a. Ongoing maintenance includes topdressing turf with finely screened quality compost after aeration 1-4 times per year	0	1		
<input type="checkbox"/>	b. Ongoing maintenance uses compost, compost tea or other naturally occurring, non-synthetic fertilizers as the plant and soil amendment for all landscape areas	0	1		
<input type="checkbox"/>	c. Ongoing maintenance prohibits fertilizers that are prohibited by Organic Materials Research Institute	0	1		
<b>5. Mulch Regularly</b>					
<input type="checkbox"/>	a. Ongoing maintenance requires regular reapplication of organic mulch, to a minimum depth of 3 inches (total 2 points)	0	1	1	
<b>6. Manage and maintain irrigation system so every drop counts</b>					
<input type="checkbox"/>	a. Ongoing maintenance includes a schedule for reading the dedicated meter or submeter and reporting water use	0		1	
<input type="checkbox"/>	b. At completion of the installation, the contractor shall provide the property owner with 1. precipitation rate for each valve zone, 2. area calculations for each irrigation zone and the irrigation plans which include the location of irrigation supply shut off, 3. internet address for watering index information	0		2	
<input type="checkbox"/>	c. Ongoing maintenance includes regular checking of irrigation equipment, and/or checking soil moisture content before watering AND/OR immediate replacement of broken equipment with equal or superior materials	0		1	
<b>7. Use IPM as part of maintenance practices</b>					
<input type="checkbox"/>	a. Ongoing maintenance includes integrated pest management specifications	0			2
<input type="checkbox"/>	b. At least one landscaping staff member or contractor is trained in the use of IPM or is a Bay-Friendly Qualified Professional	0			2
<b>8. Choose and maintain your materials, equipment &amp; vehicles carefully</b>					
<input type="checkbox"/>	a. Ongoing maintenance requires that all oil leaks are repaired immediately and that repairs are not done at the landscape site	0			1
<input type="checkbox"/>	b. Landscape maintenance equipment uses biobased lubricants and/or alternative fuels.	0			2
<b>9. Use organic pest management</b>					
<input type="checkbox"/>	a. Ongoing maintenance does not allow the use of pesticides that are prohibited by Organic Materials Research Institute in its generic materials list	0			2
	Maintenance Subtotal, out of possible 29 points:	0			

CONSENT CALENDAR, June 9, 2009  
 Bay Friendly Landscaping, EXHIBIT B

INNOVATION	Possible Points						
<input type="checkbox"/> Bay-Friendly Landscape Guidelines and Principles are defined and referenced in the construction bid documents	0	3					
<b>2. Design &amp; install educational signage</b>							
<input type="checkbox"/> a. Provide instructional signs and other educational materials to describe the Bay-Friendly design, construction and maintenance practices	0	4					
<b>3. Create a Bay-Friendly Maintenance task list</b>							
<input type="checkbox"/> a. Provide a detailed Bay-Friendly maintenance task list and/or use the BF Model Maintenance Specifications as an official reference document in the landscape maintenance contract and/or with on site landscape staff (total 7 points)	0	1	1	1	1	1	1
<b>4. Employ a holistic approach</b>							
<input type="checkbox"/> a. Site analysis is submitted AND 65% of landscape construction waste is diverted AND planting plan includes a diverse palette AND 50% of non-turf plants are California native species AND none of the landscape area is in turf AND compost is specified for amending the soil during installation AND natural fertilizers are specified as the exclusive source of nutrients AND integrated OR organic pest management is specified (total 7 points)	0	1	1	1	1	1	1
<b>5. Innovation: Design your own Bay-Friendly Innovation</b>							
a. Enter description of innovation below, and enter up to 4 points at the right. Points will be evaluated by a Bay-Friendly rater.							
<input type="checkbox"/> i. Innovation description:	0	0	2	2	0	0	0
Innovation Subtotal, out of possible 25 points:	0						
<b>Summary</b>							
Total Possible Points:	219	25	43	20	45	22	36
Total Points Achieved:	0	0	0	0	0	0	0