



**BIODIVERSITY WORK PROGRAM MATRIX**

PROGRAMS, INITIATIVES, POLICIES, PLANS, STRATEGIES, ACTIONS	REFERENCE	PORT STAFF LEAD	DESCRIPTION	PARTNERSHIPS	SAN FRANCISCO BIODIVERSITY GOALS MAPPING				
					Robust Ecosystems	Equitable Experience, Connection	Community Stewardship	Ecological Planning / Biophilic Design	Resilience in a Living City
<b>Policies</b>									
Port of San Francisco Strategic Plan	<a href="#">Port Strategic Plan</a>	Elaine Forbes, Executive Director	Sets forth Port’s goals to protect Bay ecology and natural environment through sensitive development of open spaces, stormwater management and best management practices.	Development partners and tenants, non-profit partners, City and State Agencies	✓			✓	✓
Port of San Francisco Waterfront Land Use Plan Update	<a href="#">Waterfront Land Use Plan Update Summary Report</a>	Diane Oshima, Deputy Director, Planning & Environment Rod Iwashita, Chief Harbor Engineer Anne Cook, Sr. Waterfront Planner Carol Bach, Environmental Affairs Manager	Policy recommendations emerging from a 2-year community-based effort led by the Waterfront Plan Working Group include: <ul style="list-style-type: none"> <li>• Provide areas for nature, habitat, and environmental restoration; places that restore the environment and support wildlife habitat.</li> <li>• Seek opportunities and partnerships to engage communities</li> </ul>	Development partners, non-profit partners, City and State Agencies, Advisory Groups, members of the general public.	✓	✓	✓	✓	✓

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			<p>and promote equitable access to natural areas and environmental education about Bay environments.</p> <ul style="list-style-type: none"> <li>• Seek opportunities to build natural infrastructure (e.g. wetlands, horizontal levees, and “living shorelines”) and habitat into shoreline projects; prioritize “soft” waterfront edges where feasible and appropriate.</li> <li>• Seek opportunities to create a mosaic of in-water and shoreline habitat; consider opportunities to integrate habitat into design and construction of in-water structures such as oyster baskets, or textured vertical surfaces.</li> </ul>						

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San Francisco Biodiversity Policy	<a href="#">City Biodiversity Policy</a>	Carol Bach, Environmental Affairs Manager	Establishes City’s goals to advance interagency collaboration to facilitate ecological restoration and stewardship of wildlands and wildlife habitats.	Development partners and tenants, non-profit partners, City and State Agencies	✓	✓	✓	✓	✓
<b>Regulations</b>									
San Francisco Bird-Safe Building Ordinance	<a href="#">Standards for Bird-Safe Buildings</a>	Dan Hodapp, Senior Waterfront Planner, Urban Design	Requires design and construction features, such as windows and lighting, to protect birds.	Development partners and tenants, City Agencies				✓	
San Francisco Better Roofs Ordinance	<a href="#">Better Roofs Ordinance</a>	Dan Hodapp, Senior Waterfront Planner, Urban Design	Requires solar and living roofs on most new construction.	Development partners and tenants, City Agencies	✓			✓	
San Francisco Stormwater Management Requirements	<a href="#">Stormwater Management Requirements</a>	Rich Berman, Environmental Affairs Manager		Development partners and tenants, City Agencies	✓			✓	

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<b>Plans &amp; Guidelines</b>									
The San Francisco Blue-Greenway	<a href="#">Port of San Francisco Blue-Greenway Project</a> <a href="#">Blue-Greenway Design Guidelines</a> <a href="#">Blue-Greenway – Restoration and Revegetation Guidelines for Contaminated and Impacted Areas</a>		The Blue Greenway is a City-wide inter-agency project dedicated to creating a public open space and water access network in southeast San Francisco, from China Basin Channel to the San Francisco County Line. The Blue Greenway will link established open spaces; create new recreational opportunities and green infrastructure; provide public access and retain and restore natural habitat areas. The companion guidelines recommend specific considerations, including land cover type, and plant lists developed for southeast San Francisco.	Development partners and tenants, non-profit partners, City and State Agencies	✓	✓	✓	✓	✓

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Port of San Francisco Waterfront Land Use Plan Update	<a href="#">Port of San Francisco Waterfront Land Use Plan Update</a>	Diane Oshima, Deputy Director, Planning & Environment	The policy recommendations described above will be incorporated into an updated Waterfront Land Use Plan (projected completion 2010).		✓	✓	✓	✓	✓
<b>Projects, Initiatives, Actions</b>									
Mission Rock development project	<a href="#">Mission Rock</a>  <a href="#">Mission Rock – Port of San Francisco</a>	Phil Williamson, Development Project Manager, Port of San Francisco	Mission Rock will be a new mixed-used neighborhood located between 3rd Street between Terry Francois Boulevard and Mission Rock Street, Pier 48 (current site of the San Francisco Giant’s parking lot A). It will consist of 8 acres of new public open space, including portions of the Blue-Greenway, residences, commercial and light industrial uses.  Planting at Mission Rock will function ecologically to help achieve the	Development partner, Seawall Lot Associates, and landscape architect, AMG	✓	✓	✓	✓	✓

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			<p>project’s goals for sustainability and contribute to a healthy environment.</p> <p>Composition and distribution of a diverse, adapted urban forest, stormwater gardens, and planted areas will create a resilient ecological framework and provide waterfront and urban habitat. Management over time will ensure that China Basin Park adapts to a changing climate and an evolving city.</p> <p>Trees will be used to block and mitigate wind, provide shade and reduce urban heat island effect, and to provide shelter for birds. Native or climate-appropriate grasses, shrubs, and ground cover will provide as much species diversity as feasible in Mission Rock’s planting areas.</p>						

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			The project includes China Basin Park, designed to be a paradigm for sustainable ecological systems. Mission Rock development team is planning active programming to make the park a learning environment where visitors will engage not only with each other, but with the plants and animals that thrive in this unique habitat.						
Pier 70 SF – Brookfield Property Development (formerly Forest City)	<a href="#">Pier 70 SF</a>	Christine Maher, Development Project Manager	Open spaces will fit the character of the historic industrial district while contributing to a sustainable and healthy environment. Native, climate-appropriate grass and perennials will increase the biodiversity and provide habitat for birds, insects and pollinators.	Development Partner, Brookfield Property Development					

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Habitat Stewardship and Environmental Education at Heron's Head Park	<a href="#">Heron's Head Park at the Port of San Francisco</a>  <a href="#">Youth Stewardship Program</a>  <a href="#">The Greenagers</a>		<p>Heron's Head Park is a 22-acre microcosm of tidal salt marsh, mudflats, coastal scrub, rocky intertidal and grassland habitat nestled in a densely urban environment. It is home to two endangered species and offers habitat to over 100 species of birds. Heron's Head Park's small size and urban setting make it uniquely well-suited to environmental education and public participation in habitat stewardship.</p> <p>The Port partners with the San Francisco Recreation &amp; Parks Department to support public programs at Heron's Head Park including:</p> <ul style="list-style-type: none"> <li>The Youth Stewardship Program offers free environmental</li> </ul>	San Francisco Recreation & Parks Department, and other non-profit partners	✓	✓	✓	✓	✓



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			<p>education and service-learning field trips to 2<sup>nd</sup>-12<sup>th</sup> graders. YSP exposes urban students to an outdoor learning environment to foster an understanding of their important role in helping to build healthy social and natural communities.</p> <ul style="list-style-type: none"> <li>The Greenagers are 9th to 10th grade students who live in the southeast sector of San Francisco and are interested in getting involved in their community. The Greenagers play an important role at Heron's Head Park through stewardship, engagement, raising awareness, creating place-based projects focused on topics participants value and are interested in.</li> </ul>						

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The EcoCenter at Heron's Head Park	<a href="#">The EcoCenter at Heron's Head Park</a>	Brenda Cartagena, Youth Services and Volunteer Program Manager  Carol Bach, Environmental Affairs Manager	The EcoCenter at Heron's Head Park is a unique educational facility located in Bayview-Hunters Point that combines environmental education, experience-based learning and habitat restoration. It is a model for green building and sustainable resource use that demonstrates how environmental resources can be used to promote healthy people, vigorous ecosystems, and strong communities. The EcoCenter offers elementary school through college educational programming, internships for youth and young adults, tours, seminars, workshops, and other activities, all free of charge.	San Francisco Recreation & Parks Department, and other non-profit partners	✓	✓	✓	✓	✓

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Habitat Stewardship at Pier 94	<a href="#">Habitat Stewardship at Pier 94</a>	<p>Noreen Weeden, Director of Volunteer Programs, Golden Gate Audubon Society</p> <p>Carol Bach, Environmental Affairs Manager</p> <p>Shannon Alford, Sr. Environmental Planner</p>	<p>Golden Gate Audubon Society (GGAS) and the Port of San Francisco are working together to improve wildlife habitat at Pier 94 by restoring the ecological function of the wetland and adjacent upland. Ongoing efforts include:</p> <ul style="list-style-type: none"> <li>• Manage the wetland, improve tidal circulation, and create an upland transition zone of native plants</li> <li>• Maintain a sandy marsh that will support several plant species no longer found in San Francisco</li> <li>• Collaborate with the Port and other agencies to clear invasive plants from the site</li> <li>• Build community and city awareness of the wetland, upland and</li> </ul>	Existing partnership with Golden Gate Audubon Society.	✓	✓	✓	✓	✓

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			<p>wildlife values at Pier 94</p> <ul style="list-style-type: none"> <li>Offer educational opportunities to the community.</li> </ul>						
Bayview Gateway Open Space	<a href="#">Bayview Gateway Open Space</a>  <a href="#">Bayview Gateway Design Summary</a>	David Beaupre, Sr. Waterfront Planner	Bayview Gateway is a 1-acre passive open space with drought-tolerant plants and fruit-bearing trees, designed to reflect the natural and cultural history of the neighborhood. It completes a portion of the Blue-Greenway along Islais Creek between the Third St. and Illinois St. bridges. Sustainable design includes locally sourced construction and landscape materials, and 100% on-site storm-water retention.			✓		✓	
Heron's Head Park Living Shoreline		Carol Bach, Environmental Affairs Manager	The Port is developing engineering design plans, and seeking permits and funding for proposed Heron's Head Park Shoreline Resilience	Potential to collaborate with Literacy for Environmental Justice, Port	✓	✓	✓	✓	✓

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			<p>Project which will construct a living shoreline to:</p> <ul style="list-style-type: none"> <li>• Stabilize the southern shoreline and protect it from continued erosion and subsidence.</li> <li>• Enhance biodiversity and ecological function.</li> <li>• Create a resilient shoreline that can adapt to a moderate amount of sea level rise through 2050.</li> </ul> <p>The Project will restore the original extent and type of wetland and aquatic habitat and provide new habitat in the form of sand/gravel beach, new and revegetated areas within the wetlands to reinforce shoreline and pond edges, and constructed oyster reefs.</p>	Youth Employment Program, SF State Estuary and Ocean Science Center, California Invasive Pest Council					

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Port of San Francisco Seawall Earthquake Safety Program	<a href="#">The Seawall Program</a>	Lindy Lowe, Resilience Program Manager	<p>The Port of San Francisco is leading the Seawall Earthquake Safety Program, a citywide effort to strengthen the Embarcadero Seawall and create a more sustainable and resilient waterfront.</p> <p>Program Goals include:</p> <ul style="list-style-type: none"> <li>• Act responsibly, transparently, and with accountability</li> <li>• Reduce earthquake damage</li> <li>• Improve flood resilience</li> <li>• Engage the community</li> <li>• Enhance the City and the Bay</li> <li>• Preserve historic resources</li> </ul>	City, Regional, State, and Federal agencies, Development partners and tenants, non-profit partners	✓	✓		✓	✓