TABLE 6-1: SUMMARY OF IMPACTS AND MITIGATION MEASURES

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
AESTHETICS					
Mitigation Measure AESTH – 1: In order to mitigate potential adverse impacts to the character of the site as a result of the wild art, pieces of art that are durable, contain unique features, and pose no health or safety risk, such as the "Rubik's Cube," shall be relocated to another location near the site of their original location.	Relocate art	Construction contractor	Prior to construction	EBRPD Construction Manager	Prior to and during project construction
AIR QUALITY					
The project would not result in significant impacts related to air quality; therefore, no mitigation measures are required.					
BIOLOGICAL RESOURCES					
Mitigation Measure BIO-1a: Protocol-level surveys (as described in CDFG 2012) shall be conducted in suitable habitat areas for burrowing owl each year of the proposed construction activity. Suitable habitat includes concrete rubble and rip rap located within the construction areas, such as along Albany Neck and along portions of the slope of Fleming Point. If active nests are found, consultation with CDFG staff shall occur to determine appropriate setbacks or work windows to ensure construction will not have a substantial adverse effect on burrowing owls.	Protocol level surveys, consultation with CDFG (if active nests are found)	Qualified biologist	Prior to initiation of construction	EBRPD Stewardship Manager	Each year prior to initiation of construction
Mitigation Measure BIO-1b: Pre-construction nesting surveys shall be conducted for all nesting birds protected by the Migratory Bird Treaty Act. Surveys shall be conducted by a qualified biologist within 14 days of the onset of potential disturbance to nesting habitats. If nests are found, they shall be flagged and a suitable buffer area would be established in consultation with CDFG to ensure construction will not have a substantial adverse effect on nesting birds protected by the Migratory Bird Treaty Act. If burrowing owls are found, mitigation measures included in the CDFG Staff Report on Burrowing Owl Mitigation (March 7, 2012) shall be followed, No work would be conducted within this buffer area until young have fledged and are independent of the nest. Breeding bird surveys are not needed for work conducted outside the nesting season (between September 1 and December 31).	Completion of preconstruction nesting surveys and, if nests are found, implementation of measures in CDFG Staff Report in consultation with CDFG	Qualified biologist	Prior to any work during nesting season, and during construction	EBRPD Stewardship Manager	Each year prior to any work during nesting season, and during construction
Mitigation Measure BIO-2a: A debris boom to control floating construction debris and reduce water turbidity shall be installed prior to initiation of shoreline revetment construction along Albany Neck. (See also Mitigation Measure HYDRO-1b).	Installation of debris boom	Construction contractor	Prior to shoreline revetment construction along Albany Neck	EBRPD Stewardship Manager	Prior to, and throughout construction along Albany Neck

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
Mitigation Measure BIO-2b: The Contractor shall prepare and implement a Spill Control and Countermeasures Plan that includes protocols to prevent spills and exposure of people, wildlife and sensitive resources to contaminants. The plan shall include use of a containment boom to prevent spread of any toxic materials that may be released into Bay waters during demolition debris removal and construction of the rock riprap. The debris boom described above may be modified to serve this purpose, and would serve to prevent any spills that do occur from impacting the least terns. (See also Mitigation Measures HYDRO-1a, HYDRO-1b), GEO-4a, and GEO-4b).	Preparation and implementation of Spill Control and County Measures Plan	Qualified stormwater developer/practitioner and construction contractor	Prepare plan prior to construction and implement plan during construction	EBRPD Stewardship Manager	Prior to and during construction
Mitigation Measure BIO-3a: A biological monitor shall be present during subtidal and tidal zone work activities. Should a marine mammal be spotted within 500 feet of the construction area, the monitor shall instruct the Contractor to halt work until the mammal(s) have left the area.	Biological monitoring on-site	Qualified biologist	During subtidal and tidal zone work activities	EBRPD Stewardship Manager	Throughout subtidal and tidal zone work activities
Mitigation Measure BIO-3b: Prior to the initiation of construction activities, the District shall retain a qualified biologist to prepare a Marine Mammal Contingency Plan (Contingency Plan) to identify the actions taken in the event that, in spite of the requirement to stop work if a marine mammal is present in the vicinity of the construction activity, a marine mammal is injured. The Contingency Plan shall include but not be limited to notification protocols, identification of rescue centers, information for key contacts, and plans of action to address any injury. The applicant shall ensure that this measure is implemented for the duration of inwater construction activity.	Preparation of Marine Mammal Contingency Plan	EBRPD and qualified biologist	Preparation of plan prior to construction and implementation of plan during inwater construction activities	EBRPD Stewardship Manager	Prior to, and throughout inwater construction activities
Mitigation Measure BIO-4a: The final Bay Trail alignment through the poison oak scrub shall be laid out to minimize impacts to this habitat type.	Design trail alignment to avoid poison oak scrub	Qualified design engineer	Prior to finalizing alignment of trail	EBRPD Stewardship Manager	Prior to finalizing alignment of trail
Mitigation Measure BIO-4b: As described in Mitigation Measure HYDRO-1b, an Erosion Control and Revegetation Plan shall be prepared as part of the final Construction Plans. The Revegetation Plan shall include a component that restores an undisturbed area of ruderal scrub vegetation in close proximity to the poison oak scrub with a mixture of native grasses, forbs, and shrubs that were a part of the historic coastal scrub plant community in the East Bay Area. The Erosion Control and Revegetation Plan shall provide for replacement planting of the disturbed poison oak scrub at a ratio of 2:1.	Preparation of Erosion Control and Revegetation Plan	Qualified stormwater developer and landscape architect	Prior to completion of final construction plans	EBRPD Stewardship Manager	Prior to completion of final construction plans

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
Mitigation Measure BIO-5a: Prior to initiation of construction work, an eelgrass survey shall be completed to map eelgrass resources within the project area as required by regulatory permit conditions.	Completion of eelgrass survey	Qualified biologist	Prior to initiation of construction work and after issuance of regulatory permits	EBRPD Stewardship Manager	Prior to initiation of construction work and after issuance of regulatory permits
Mitigation Measure BIO 5b: A debris boom shall be installed shoreward of existing eelgrass beds. The boom shall be kept a minimum of 10 feet away from existing eelgrass beds. (See also Mitigation Measures HYDRO-1a, and HYDRO-1b).	Installation of debris boom	Construction contractor	Prior to construction	EBRPD Stewardship Manager	Prior to and during construction
Mitigation Measure BIO-5c: The Contractor shall prepare and implement a Spill Control and Countermeasures Plan (see also Mitigation Measure HYDRO-1b). The plan shall include use of a containment boom to prevent spread of toxic materials that may be accidentally released into Bay waters during debris removal and revetment installation. The debris boom described above (BIO-2a) may be modified to serve this purpose.	Preparation and implementation of Spill Control and Countermeasures Plan	Construction contractor	Prepare plan prior to construction and implement plan during construction	EBRPD Construction Manager	Prior to and during construction
Mitigation Measure BIO-5d: The Contractor shall implement a Stormwater Management and Erosion Control Plan to prevent stormwater pollution and siltation from reaching the SF Bay. Measures shall include but are not limited to: covering stockpiled material prior to rain events, and providing equipment and staff as required to repair and/or implement erosion/sediment control measures (see also Mitigation Measures HYDRO-1b, GEO-4a, and GEO-4b).	Preparation and implementation of Stormwater Management and Erosion Control Plan	Construction contractor	Prepare plan prior to construction and implement plan during construction	EBRPD Construction Manager	Prior to, and throughout construction

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
Mitigation Measure BIO-5e: Following completion of construction activities, a post-construction eelgrass survey shall be completed within the project area, as required by regulatory permit conditions, to ensure construction did not negatively impact eelgrass resources. Survey methods shall utilize a combination of remote sensing using sidescan sonar to determine overall coverage of eelgrass, along with a visual assessment of eelgrass health and bed density using SCUBA. Significant impacts to eelgrass (as determined from a comparison of historical data for this site and pre- and post-construction eelgrass surveys and evidence eelgrass bed disturbance from construction such as unnatural scour or presence of fill or debris) would be mitigated through on-site or off-site eelgrass transplant. Elements of eelgrass mitigation shall be detailed in an Eelgrass Mitigation and Monitoring Plan. Mitigation/restoration shall utilize a 1.2:1 ratio for transplanted:impacted eelgrass and mitigation shall be implemented within one year of impact. Restoration shall include identification and/or modification of a suitable restoration site, identification of an appropriate donor site, and installation of bare-root bundles at one square meter spacing or more widely spaced seed buoys. Methods shall be based on methods that have proven successful within San Francisco Bay. Monitoring of the restored area shall be completed for a duration of five years following restoration. Restoration methodology, timing, and a monitoring schedule shall be included in the Eelgrass Mitigation and Monitoring Plan.	Preparation of post-construction eelgrass survey, and preparation and implementation of eelgrass mitigation and monitoring plan if required	Qualified biologist	Following construction activities	EBRPD Stewardship Manager	Following construction and monitoring for 5 years following restoration if required
Mitigation Measure BIO-5f: Within the spawning season for Pacific herring (November through February) a qualified biologist shall inspect the low intertidal and shallow subtidal riprap shoreline within the construction area prior to any debris removal or other construction work. If egg masses are located, areas of spawn would be excluded from the work area until such time as hatching is completed at which time, work would be completed within the vacated spawning locations.	Inspect low intertidal and shallow subtidal rip rap shoreline for Pacific Herring eggs	Qualified biologist	November – February during construction	EBRPD Stewardship Manager	November – February during construction
Mitigation Measure BIO-6a: A qualified biological monitor shall be present on-site, as required by regulatory permit conditions, during subtidal and tidal zone work activities to inspect work areas for compliance with construction documents and permit conditions, and halt work if necessary, if permit conditions are being violated.	On-site biological monitor present	Qualified biologist	During subtidal and tidal zone work activities	EBRPD Stewardship Manager	Throughout subtidal and tidal zone work activities
Mitigation Measure BIO-6b: Contractor employees shall be educated and trained to be aware of the shoreline environment and wildlife and plants with which they are working, and to take suitable precautions for the protection of wetlands and water quality.	Contractor training	Qualified biologist	Prior to construction	EBRPD Construction Manager	Once, prior to construction

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
Mitigation Measure BIO-6c: EBRPD shall obtain any needed permits and authorizations for work in wetlands. These include a Section 404 permit for any work in wetlands, a Section 401 water quality certification, potential WDRs, and compliance with regional and local plans and protocols.	Obtain wetland permits/authorizations	Project Engineer and EBRPD Stewardship Manager	Prior to construction	Regulatory Agencies	Prior to construction work
CULTURAL RESOURCES					
Mitigation Measure CUL-1: See Mitigation Measure AESTH-1, which calls for relocation of wild art pieces such as such as the "Rubik's Cube," that are durable, can be physically moved, contain unique features, and pose no health or safety risk.	Relocate art	Construction contractor	During to construction	EBRPD Construction Manager	Throughout project construction
Mitigation Measure CUL-2: In order to mitigate potential adverse impacts to the existing concrete wall structure, the detailed project design for the Bay Trail spine in Area 3 shall avoid the 10-foot x 6-foot wall located in the brush slope area in Area 3, or incorporate the wall intact into the design of the trail, unless it is determined following slope brush clearing for trail construction that the retaining wall is not associated with another structure and thus has no independent integrity as was determined by the Fentress Study. It then may be demolished.	Avoid or incorporate wall into design of Bay Trail Spine Area 3, or demolish wall if it is not associated with another structure	Qualified Design Engineer	Prior to approval of final design plans	EBRPD Construction Manager	Prior to approval of final design plans

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
Mitigation Measure CUL-3: In order to mitigate potential adverse impacts to intact historic features discovered during construction, work shall be halted within 50 feet of the discovery until the features have been inspected and evaluated by a qualified archaeologist. The archaeologist shall, in accordance with *EBRPD Guidelines for Protecting Parkland Archaeological Sites*[4], identify and evaluate the significance of the discovery and develop recommendations for treatment to ensure any impacts to the cultural resource are less than significant. If encountered and recovery is deemed necessary to minimize construction impacts to the feature, a qualified archaeologist shall prepare and implement a research design and archaeological data recovery plan that will capture those categories of data for which the site is significant. The archaeologist shall also perform appropriate technical analyses, prepare a comprehensive report and file it with the Northwest Information Center affiliated with Sonoma State University and provide for the permanent curation of the recovered materials.	a) Halt work b) Qualified archaeologist inspection and evaluation of intact historical features	a)Construction contractor b) Qualified archaeologist	During construction, if intact historic features discovered during construction Same as above	EBRPD Construction Manager Same as above	Throughout project construction Same as above
If any cultural resources are discovered on state lands that are under the jurisdiction of the State Land Commission, the project proponent shall consult with staff counsel of the State Lands Commission regarding those cultural resources.	c) Consultation with State Lands Commission	c) EBRPD Stewardship Manager	Same as above	Same as above	Same as above

[4] East Bay Regional Park District, 1989. Oakland, California.

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
Mitigation Measure CUL-4: Construction contractors shall be trained by EBRPD staff to recognize Native American cultural objects. In accordance with *EBRPD Guidelines for Protecting Parkland Archaeological Sites*[5] and CEQA, any previously undiscovered resources found during construction shall be recorded on appropriate California Department of Parks and Recreation (DPR) forms and evaluated by a qualified archaeologist to determine if it is an historical resource under CEQA, and if so, whether the Project would cause a substantial adverse change in the significance of the historical resource. In order to mitigate potential adverse impacts to Native American cultural objects discovered during construction, work shall be halted within 50 feet of the discovery until the objects have been inspected and evaluated by ~~a~~ the qualified archaeologist. If after evaluation by the archaeologist, the resource is determined to be an historical resource under CEQA and the Project would cause a substantial adverse change in the significance of the historical resource, the archaeologist shall develop recommendations for treatment to ensure any impacts to the cultural resource are less than significant. The qualified archaeologist shall prepare and implement a research design and archaeological data recovery plan that will capture those categories of data for which the site is significant. The archaeologist shall also perform appropriate technical analyses, prepare a comprehensive report and file it with the Northwest Information Center, affiliated with Sonoma State University, and provide for the permanent curation of the recovered materials.	a) Contractor training b) Halt work c) Evaluation of resources and preparation of data recovery plan	a) EBRPD staff archaeologist or qualified archaeologist b)Construction contractor c) Qualified archaeologist	a) Prior to construction b) During construction, if Native American cultural objects are discovered c) During construction, if Native American cultural objects are discovered	a) EBRPD Construction Manager b) EBRPD Construction Manager c) EBRPD Stewardship Manager	a) Prior to construction b) During construction c) During construction

[5] East Bay Regional Park District, 1989. Oakland, California.

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
Mitigation Measure CUL-5: Construction contractors shall be trained by EBRPD staff to recognize fossils and possible unique geological features. EBRPD shall be notified if these are uncovered during construction of the Project. Work shall halt within 50 feet of the find until the situation can be assessed by a qualified paleontologist, in accordance with Society of Vertebrate Paleontology standards. The paleontologist shall evaluate the resource to determine if the resource is an historical resource under CEQA, and if so, whether the Project would cause a substantial adverse change in the significance of the historical resource and develop recommendations for treatment as described below to ensure any impacts to the cultural resource are less than significant. If the find is determined to be significant and EBRPD determines that avoidance is not feasible, the paleontologist shall design and carry out a data recovery plan consistent with the Society of Vertebrate Paleontology standards that includes salvage of unearthed fossil remains, preparation of salvaged fossils for curation, identification, cataloging, curation, repository storage of prepared fossil specimens, and a final report of the finds and their significance. The plan shall be submitted to the EBRPD for review.	a) Contractor training	a) EBRFP Staff or qualified geologist or paleontologist	a) Prior to construction	a) EBRPD Construction Manager	a) Prior to construction
	b) Halt work and identify and evaluate fossils and possible geological features	b) Construction contractor and qualified geologist or paleontologist	b) During construction, if fossils are discovered	b) EBRPD Construction Manager	b) Throughout construction
	c) If find is significant, notify local jurisdiction and prepare and implement data recovery plan if required	c) Qualified geologist or paleontologist	c) During Construction, if significant fossils are discovered	c) EBRPD Construction Manager	c) Throughout construction

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
Mitigation Measure CUL-6: Construction contractors shall be trained by EBRPD staff to recognize human remains. In order to mitigate potential adverse impacts to human remains discovered during construction, work shall be halted within 100 feet of the discovery until the materials or features have been inspected and evaluated by a qualified archaeologist. The archeologist shall identify and evaluate the significance of the discovery and develop recommendations for treatment to ensure any impacts to the cultural resource are less than significant, including avoidance of the resource, preparation of a treatment plan that could require recordation collection and analysis of the discovery, or curation of the collection and supporting documentation in an appropriate depository. In addition, the discovery must be reported to the County Coroner. If the Coroner determines the remains to be Native American, the Native American Heritage Commission must be contacted within 24 hours. The Heritage Commission will assign a Most Likely Descendant to provide recommendations for the proper treatment of the remains taking into account the possibility of multiple human remains, and comply with Public Resources Code section 5097.98 and the Native American Graves Protection and Repatriation Act, if applicable. If the Native American Heritage Commission is unable to identify a most likely descendent, or the most likely descendent fails to make a recommendation within 24 hours after being notified by the commission, or EBRPD rejects the recommendation of the descendant, and mediation by the Native American Heritage Commission fails to provide measures acceptable to the EBRPD, then the Native American human remains and associated grave goods shall be reburied with appropriate dignity on the property in a location not subject to further subsurface disturbance.	a) Contractor training b) Stop work in the event of archaeological discovery c) Notify archaeologist, evaluate remains and prepare recommendations, notify County Coroner	a) EBRPD staff b) EBRPD Contractor c) Qualified archaeologist	a) Prior to construction b) During construction activity, if human remains are discovered c) During construction activity, if human remains are discovered	a) EBRPD Construction Manager b) EBRPD Construction Manager c) EBRPD Construction Manager	a) Before project construction b) Throughout project construction c) Throughout project construction
GEOLOGY AND SOILS					
Mitigation Measure GEO-1: Completion of a Design Level Geotechnical Investigation including the elements described below. EBRPD shall comply with a design level geotechnical report that provides design recommendations for the Proposed Project to protect people and structures from substantial adverse effects (including the risk of loss, injury or death) from ground shaking, liquefaction, landslides, earthquakes, substantial soil erosion or loss of topsoil, and unstable soils. • The design-level geotechnical investigation shall be performed to identify methods for site preparation and grading to stabilize existing fill areas and prepare the site for foundation and retaining wall construction. Measures may include reworking of existing fill soils, removal of oversized concrete	Preparation of design level geotechnical investigation and implementation of geotechnical report	California Registered Geotechnical Engineer or Civil Engineer	As part of final design, review prior to issuance of final grading and building permits	EBRPD Construction Manager	Twice, on building permit issuance and sign-off

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
and debris from fill and crushing and or off-haul of oversized and unstable materials.					
• The design level geotechnical investigation shall further investigate the potential hazards of liquefaction/ground failure, seismic ground shaking, expansive soils, and slope instability as described below.					
• The design-level geotechnical investigation shall determine 2010 California Building Code seismic design parameters.					
• Hazards of strong seismic ground shaking, landslides and slope instability shall be mitigated through a combination of removal of loose rocks and boulders, the construction of retaining walls and engineered fill buttresses, construction of benches on cut/fill slopes, re-working of existing soils, or a combination thereof. The design level geotechnical investigation shall provide parameters for completion of these mitigation measures.					
• Hazards due to expansive or liquefiable soils shall be mitigated through the use of thickened slab foundations, selective removal and replacement of expansive or liquefiable soils with engineered fill, or a combination thereof. The design level geotechnical investigation shall determine the specific extent and parameters of these mitigation measures.					
• The geotechnical design investigation shall include design recommendations for retaining walls, foundations, concrete slabs, pavements, walkways, surface and subsurface drainage.					
• Recommendations of the project geotechnical professional shall be incorporated into the project design.					
• The geotechnical investigation shall identify the geotechnical observation and testing services recommended during construction. During construction, the geotechnical professional (geotechnical or civil engineer, engineering geologist) shall perform observations and testing services and shall prepare a final report documenting results of his work, consistent with geotechnical investigation recommendations. These observations and testing shall include compaction testing of engineered fill where appropriate, and observation of foundation conditions, including drilled pier and footing excavations.					

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
• The geotechnical investigation shall include a map prepared by a land surveyor or civil engineer that shows the locations and elevation of key features (e.g., keyways, subdrains and their cleanouts, cut slopes and cut pads). The map shall include a statement that the locations and limitations of the features are accurate representations of said features as they exist on the ground, were placed on this map by the surveyor, the civil engineer or under their supervision, and are accurate to the best of their knowledge.					
Mitigation Measure GEO-2: See Mitigation Measure GEO-1.					
Mitigation Measure GEO-3: See Mitigation Measure GEO-1.					
Mitigation Measure GEO-4a: EBRPD shall complete an Erosion Control and Revegetation Plan that will include winterization, dust control, wind and water erosion control and stormwater runoff and pollution control measures conforming to the Association of Bay Area Government (ABAG) Manual of Standards for Erosion and Sediment Control Measures and the California Stormwater Quality Association (CASQA) Stormwater Best Management Practice Handbook Portal: Construction. The Erosion Control Plan shall describe the "Best Management Practices" (BMPs) to be used during and following construction to control pollution resulting from both storm and construction water runoff. The Plan shall include locations of vehicle and equipment staging, portable restrooms, mobilization areas, and planned access/haul routes. Recommended soil stabilization techniques include: placement of straw wattles, silt fences, berms, and gravel construction entrance areas or other control to prevent tracking sediment onto city streets and into storm drains, and use of properly engineered rock revetment structures for shoreline erosion protection.	Prepare and implement an Erosion Control and Revegetation Plan	Qualified Stormwater Developer and Landscape Architect	Prior to issuance of grading permit	EBRPD Construction Manager	Prior to, and periodically during construction
Mitigation Measure GEO-4b: EBRPD shall prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) for the Proposed Project to prevent erosion and siltation during the construction phase of the project. The SWPPP and Notice of Intent must be submitted to the State Water Resources Control Board to receive a Construction General Permit. The updated plan shall address National Pollutant Discharge Elimination System (NPDES) requirements and be designed to protect water quality both during and after construction. The Project SWPPP shall include a description of the "Best Management Practices" (BMPs) used to prevent the discharge of other construction-related NPDES pollutants beside sediment (i.e. paint, concrete, etc) to downstream waters and	Prepare and implement SWPPP and Notice of Intent	Qualified Stormwater Developer	Prior to issuance of grading permit	EBRPD Construction Manager	Prior to and periodically during constructions

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
adjacent Bay waters. Performance standards for effectiveness of the Erosion Control Plan and SWPPP are built into the SWRCB requirements through the Risk Level calculation. This calculation takes in to account the site topography and sediment risk of the receiving water (in this case the San Francisco Bay) and implements requirements for monitoring based upon the risk of erosion and sedimentation of the particular project and would ensure effectiveness of this mitigation. After construction is completed, all drainage facilities shall be inspected for accumulated sediment from the Project, and these drainage structures shall be cleared of debris and sediment (see also Mitigation Measure HYDRO-1b). Performance standards to be included in the SWPPP, and verified during and following construction in anticipated in regulatory permit conditions include the following minimum standards: 3. Not result in an increase in Bay Water Turbidity above background levels by more than 10%. 4. Not have pH levels in stormwater runoff from disturbed or stabilized areas of less than 6.5 or more than 8.5. 5. Not have salinity in stormwater runoff from disturbed or stabilized areas of an amount large enough to have an appreciable impact on the salinity of San Francisco Bay.					
Mitigation Measure GEO-4c: Fencing shall be established around the enhanced dune area to prevent access and resultant erosion by park users and pets. This would prevent erosion of the restored sandy dune complex due to use by park visitors.	Installation of fencing around enhanced dune area	Construction contractor	Prior to completion of dune area	EBRPD Construction Manager	Once, at end of construction of dune area
Mitigation Measure GEO-5: See Mitigation Measure GEO-1.					
GREENHOUSE GAS EMISSIONS					
The project would not result in significant impacts related to greenhouse gas emissions; therefore, no mitigation measures are required.					

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
HAZARDS AND HAZARDOUS MATERIALS					
Mitigation Measure HAZ-1a: Minimization of Overburden Removal on Albany Neck. Surface and near surface soils previously impacted with contamination could be exposed if significant amounts of overburden is removed as part of the Albany Neck restoration and shoreline stabilization work. The construction shall minimize the amount of surface material removed as part of shoreline restoration to prevent exposing contaminated subsurface materials. Removal of debris and soils on the slopes of Albany Neck shall be limited to only that which is unstable and must be removed to maintain the integrity of the slope on either side of the existing trail, or for habitat enhancement.	Minimize removal of overburden at Albany Neck	Construction contractor	During construction	EBRPD Construction Manager	Throughout construction
Mitigation Measure HAZ-1b: Cover and Revegetate Disturbed Areas. Areas disturbed during construction of the shoreline revetment or repair of the damaged areas on the Plateau, and not protected by rock, shall be backfilled with a minimum of 1 foot of clean soil and shall be revegetated.	Cover and revegetate disturbed areas on Plateau	Construction contractor	After completion of ground disturbing activities	EBRPD Construction Manager	Once, after completion of ground disturbing activities
Mitigation Measure HAZ-1c: EBRPD shall notify and receive concurrence from RWQCB before any work is performed within the risk remediation areas described in the Eastshore Park General Plan Resource Inventory.	Notify and concur with RWQCB regarding construction in risk remediation areas	EBRPD Stewardship Manager	Prior to construction activities in risk remediation areas	EBRPD Construction Manager	Prior to construction activities in risk remediation areas
Mitigation Measure HAZ-1d: Require site screening and chemical testing with consideration of Regional Park Preliminary Remediation Goals prior to off-site disposal. Prior to off-site disposal of excavated site soils, site screening, field evaluation, and chemical testing where appropriate and in accordance with RWQCB guidelines and permit conditions shall be performed on representative samples of excavated material to determine suitability for re-use or disposal in appropriate landfill facilities.	Screen and chemical test excavated site soils	Project Engineer	Prior to off-site disposal of excavated site soils	EBRPD Construction Manager	Ongoing during construction, prior to off-site disposal of excavated site soils

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
Mitigation Measure HAZ-1e: Development of a Site Specific Health and Safety Plan by the Contractor. During construction activities that could involve disturbance of site soils in remediated areas, EBRPD shall require that the contractor develop and implement a site specific Health and Safety Plan that addresses the potential for the presence of contaminated soils in the subsurface. The Health and Safety plan shall include Best Management Practices (BMPs) (including, but not limited to use of proper personal protective equipment, training for recognition of contaminated soils, and proper procedures for limiting excavation of site sub-soils) to minimize exposure to contaminants by site workers. The contractor shall hold daily tailgate safety meetings to ensure all site workers are familiar with these procedures prior to working on the project site.	Preparation and implementation of Site Specific Health and Safety Plan including holding tailgate safety meetings	Construction contractor with review by Project Engineer	Prior to beginning construction	EBRPD Construction Contractor	Prior to beginning construction and during construction
HYDROLOGY AND WATER QUALITY					
Mitigation Measure HYDRO-1a: Detailed plans for temporary construction-related erosion control shall be incorporated in the Project plans. Construction plans shall specify all erosion and sediment control measures, including (where applicable): • Limiting access routes and stabilizing access points. • Stabilizing graded areas as soon as possible with seeding, mulching, erosion control materials, or other effective methods. • Delineating clearing limits, easements, setbacks, sensitive areas, vegetation, and drainage courses by marking them in the field. • Stabilizing and preventing erosion from temporary conveyance channels and outlets. • If rainfall occurs, using sediment controls and filtration to remove sediment from water collected on-site during construction.	Preparation and implementation of detailed plans for temporary construction related erosion and sediment control measures.	Qualified Stormwater Developer, Project Engineer, and Construction Contractor	(Preparation of erosion control plans) prior to issuance of grading permits and (implementation of erosion control) during construction	EBRPD Construction Manager	(Preparation of erosion control plans) prior to and (implementation of erosion control) during construction
Mitigation Measure HYDRO-1b: A Stormwater Pollution Prevention Plan (SWPPP) shall be prepared by EBRPD. Specific measures, as cited below, shall be adapted from the most current edition of the Stormwater Best Management Practice Handbook for Construction, published by the California Stormwater Quality Association (CASQA). The SWPPP shall include Best Management Practices (BMPs) to prevent or minimize stormwater pollution during construction activities, and post construction. The project Erosion Control and Revegetation Plan (to minimize erosion for the post-construction phase of the	Prepare and implement SWPPP	Qualified Stormwater Developer	(Preparation of SWPPP) prior to issuance of grading permit and (implementation of SWPPP) during construction	EBRPD Construction Manager	(Preparation of SWPPP) prior to and (implementation of SWPPP) during construction

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
project, and ensure re-vegetation of disturbed soil areas), and a Spill Control and Countermeasures Plan (to ensure oils and fluids used for equipment maintenance are prevented from entering the environment), shall be included in the SWPPP, and in the Construction Documents (see also Mitigation Measure GEO 4b). BMPs shall be prepared and implemented to control short-term construction-related water quality impacts. BMPs shall include at a minimum the following measures: • Use temporary measures, such as flow diversion, temporary ditches, and silt fencing or straw wattles. • Surface disturbance of soil and vegetation shall be minimized; existing access and maintenance roads shall be used wherever feasible. • Any stockpiled soil shall be placed, sloped, and covered in the event of rain so that it would not be subject to accelerated erosion. • Accidental discharge of all project-related materials and fluids into San Francisco Bay shall be avoided by using straw rolls or silt fences, constructing berms or barriers around construction materials, or installing geofabric in disturbed areas with long, steep slopes. All these materials shall be stockpiled at the project job site to quickly and effectively respond to an accidental release or spill. • After ground-disturbing activities are complete for each area, all graded or disturbed areas shall be covered with protective material such as mulch, and re-seeded with native plant species. The Erosion Control and Revegetation Plan shall include details regarding site preparation, topsoiling, seeding, plant palette (including sizes, quantities, and varieties of native plants) fertilizer, mulching, and watering during plant establishment. • An off-shore debris boom capable of controlling any siltation created during excavation of the existing concrete rubble shoreline and placement of the rock rip rap protection shall be deployed. The debris boom shall be designed to protect the offshore eelgrass beds, and be adaptable to attachment of oil absorbent materials for deployment in case of an oil spill or leak (see also Mitigation Measures BIO-2a and BIO-2b).					
LAND USE AND PLANNING					
The project would not result in significant project or cumulative impacts related to land use and planning; therefore, no mitigation measures are required.					

Exhibit 4: Table of Mitigation Measures

Mitigation Measures	Action/Product	Implemented By	Implementation Timing	Monitored By	Monitoring Frequency
NOISE					
The project would not result in significant project or cumulative impacts related to noise; therefore, no mitigation measures are required.					
PUBLIC SERVICES					
The project would not result in significant project or cumulative impacts related to public services; therefore, no mitigation measures are required.					
RECREATION					
The project would not result in significant project or cumulative impacts related to recreation; therefore, no mitigation measures are required.					
TRANSPORTATION AND TRAFFIC					
The project would not result in significant project or cumulative impacts related to transportation and traffic; therefore, no mitigation measures are required.					
UTILITIES AND SERVICE SYSTEMS					
The project would not result in significant project or cumulative impacts related to utilities and service systems; therefore, no mitigation measures are required.					

Exhibit 4: Table of Mitigation Measures