

Appendix B

Mitigation Monitoring and Reporting Program



APPENDIX B

Delta Wetlands Place of Use Project Mitigation Monitoring and Reporting Program

Public Resources Code Section 21081.6, subdivision (a)(1) requires lead agencies to, “adopt a reporting or monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program shall be designed to ensure compliance during project implementation”. This Mitigation Monitoring and Reporting Program (MMRP) identifies mitigation measures adopted by the Semitropic Water Storage District (Semitropic) as conditions for approval of the proposed project, timing of action, and parties responsible for implementation and monitoring. Mitigation measures are numbered consistent with the numbering included in the April 2010 Delta Wetlands Place of Use Draft Environmental Impact Report (DEIR) (State Clearinghouse No. 1988020824), as updated by responses to comments included in the Delta Wetlands Place of Use Final Environmental Impact Report (FEIR).

The MMRP table includes the following:

- **Mitigation Measures** – adopted mitigation measures from the DEIR.
- **Implementation Responsibility** – this column identifies who is responsible for implementing the actions described in the mitigation measures.
- **Monitoring Responsibility** – identifies who is responsible for monitoring implementation of the mitigation requirements.
- **Monitoring and Reporting Actions** – describes what actions are to be taken to monitor and report on implementing the mitigation measures.
- **Timing**– identifies the timing of implementation of the mitigation requirements.
- **Verification of Compliance** – a column to note completion of mitigation measure implementation.

**DELTA WETLANDS PLACE OF USE PROJECT
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Mitigation Measures	Implementation Responsibility	Monitoring Responsibility	Monitoring and Reporting Actions	Timing	Verification of Compliance
Water Quality					
<p>Mitigation Measure WQ-MM-1: Follow Guidelines from Proposed Delta TMDL for Methylmercury</p> <p>The proposed TMDL Basin Plan amendments for mercury contain requirements for organizations that propose to create wetlands within the Delta. After the mercury TMDL is finalized, the Project applicant would follow the requirements of the TMDL, which likely will include:</p> <ul style="list-style-type: none"> Participate in a management effort to evaluate and minimize health risks associated with eating fish contaminated with mercury (Wood et al. 2010b: BPA-15, BPA-16). For phase 1 of the TMDL, participate in a monitoring program to evaluate methylmercury loading and procedures to minimize methylmercury loading from wetlands (Wood et al. 2010b: BPA-3). For phase 2 of the TMDL, implement approved methylmercury control actions. These potential actions and their effectiveness are uncertain at this time. Other possible mitigation might involve an offset program (Wood et al. 2010b: ES-3, BPA-13). 	Project applicant	Semitropic	Confirm that Project discharges do not increase methylmercury loading above the adopted mercury TMDL limits	On-going: operation	
<p>Mitigation Measure WQ-MM-2: Incorporate Mercury Methylation Control Measures in Wetland Design</p> <p>Certain actions such as permanent inundation or fall/winter inundation may help to reduce the formation of methylmercury in wetlands. As phase 1 of the TMDL is being implemented, knowledge about procedures to reduce methylmercury formation may improve. The Project applicant would use any feasible procedures to reduce methylmercury formation on the reservoir or habitat islands. This could include modifying the final HMP design or making changes later in response to new information. Proposed techniques (Wood et al. 2010a: 31; Wood et al. 2010b: 108) include taking the following actions:</p> <ul style="list-style-type: none"> modify wetland design (e.g., depth, period of inundation, and vegetation), reduce discharge of water with high concentrations of methylmercury, and trap sediment with actions such as creating settling basins or planting appropriate types of vegetation (in order to reduce discharge of methylmercury attached to sediment). 	Project applicant	Semitropic	Confirm the incorporation of feasible methods into Project wetland design to reduce methylmercury formation	Prior to final wetland design On-going: operation	
<p>Mitigation Measure WQ-MM-3: Conduct Assessments of Potential Contamination Sites and Remediate as Necessary</p> <p>The Project applicant will conduct site assessments at potential contamination sites, including sites associated with agricultural airstrip operations. If the results of a site assessment indicate that contamination is likely to mobilize into the stored water, the Project applicant shall develop plans for site remediation. Such site assessments and remediation typically would be performed under the supervision of the RWQCB. All required assessments and remediation would be completed prior to the beginning of Project water storage.</p>	Project applicant	Semitropic	Confirm that assessment of potential contamination sites and any necessary remediation is completed	Prior to operation	
<p>Mitigation Measure WQ-MM-4: Clearly Post Waste Discharge Requirements, Provide Waste Collection Facilities, and Educate Recreationists Regarding Illegal Discharges of Waste</p> <p>Prior to operation of the Project recreation facilities, post notices at all Project recreation facilities describing proper methods of disposing of waste. WDRs will be posted and enforced in accordance with local and state laws and ordinances. Prior to operation of the Project recreation facilities, provide waste collection receptacles on and around the boat docks for the boaters using the Project recreation facilities. Prior to operation of the Project recreation facilities, provide educational materials to inform recreationists about the deleterious effects of illegal waste discharges and the location of waste disposal facilities throughout the Delta.</p>	Project applicant	Semitropic	Confirm posting of waste discharge requirements; placement of waste collection receptacles; and availability of education materials describing illegal discharges of waste	Prior to operation On-going: operation	

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Utilities, Public Services, and Highways					
<p>Mitigation Measure UT-MM-1: Monitor Locations Where Gas Pipelines Cross Bacon Island Levees during and after Levee Construction</p> <p>During levee strengthening, the Project applicant engineers will install equipment to monitor levee settlement and subsidence rates. After levee completion, the Project applicant will conduct weekly inspections to check for potential problems at the gas pipeline crossings, including concerns about levee stability, settlement, and subsidence. If the weekly inspection indicates that settlement, erosion, or slumping at the gas pipelines has occurred, the Project applicant will notify PG&E and will implement corrective measures to mitigate any decrease in levee stability near the gas lines.</p>	Project applicant	Semitropic	Confirm the installation of equipment to monitor levee settlement and subsidence rates and that weekly inspections are conducted to check for potential problems at the gas pipeline crossings	On-going: operation	
<p>Mitigation Measure UT-MM-2: Relocate Electrical Distribution Lines to the Perimeter Levee around Webb Tract</p> <p>The Project, in coordination with PG&E, will permanently relocate the existing electrical distribution lines on Webb Tract to the improved perimeter levees during Project construction. The new or relocated distribution lines will be located along perimeter levees and will be installed overhead, similar to existing installations. Before temporarily or permanently modifying or relocating existing electrical lines, the Project will conduct special-status plant surveys (Mitigation Measure VEG-MM-1) in areas that could be affected by the proposed modifications. If threatened or endangered plant species are found, the Project will avoid disturbing those plants when making changes to existing electrical lines.</p>	Project applicant	Semitropic	Confirm completion of special-status plant surveys before temporarily or permanently modifying or relocating existing electrical lines. Confirm that project design relocates existing electrical distribution to improved perimeter levees and are installed overhead. Confirm that if endangered plant species are found that the Project avoids them when making changes to existing electrical lines.	Prior to final design approval Prior to construction	
<p>Mitigation Measure UT-MM-3: Extend Electrical Distribution Lines to Serve New Siphon and Pump Stations and Recreation Facilities</p> <p>The Project, in coordination with PG&E, will extend existing electrical distribution lines on the Reservoir Islands where needed to serve new siphon and pump stations and recreation facilities. Before modifying existing electrical lines, the Project will conduct special-status plant surveys (Mitigation Measure VEGMM-1) in areas that could be affected by the proposed modifications. If threatened or endangered plant species are found, the Project will avoid disturbing those plants when making changes to existing electrical lines.</p>	Project applicant	Semitropic	Confirm completion of special-status plant surveys prior to modifying existing electrical lines. Confirm the extension of existing electrical distribution to serve new siphon and pump stations and recreation facilities. Confirm that if endangered plant species are found that the Project avoids them when making changes to existing electrical lines.	Prior to final design approval Prior to construction	

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<p>Mitigation Measure UT-MM-4: Provide Adequate Lighting in and around Buildings, Walkways, Parking Areas, and Boat Berths</p> <p>The Project will provide illumination, in compliance with the recommendations of the Contra Costa County Sheriff's Department and the San Joaquin County Sheriff's Department, in and around recreation facilities, walkways, parking areas, and boat berths on all the Project islands. Also, the Project will consult with both sheriff departments for building design recommendations in order to avoid features that may promote criminal activity.</p>	Project applicant	Semitropic	Confirm that project design provides illumination in compliance with recommendations in and around recreation facilities, walkways, parking areas, and boat berths on all the Project islands. Confirm consultation with both sheriff departments for building design recommendations to reduce potential criminal activity.	Prior to final design approval	
<p>Mitigation Measure UT-MM-5: Provide Private Security Services for Recreation Facilities and Boat Docks</p> <p>The Project will provide 24-hour on-site private security for the recreation facilities and boat docks on all four Project islands. The security service would assist the San Joaquin County Sheriff's Department and Contra Costa County Sheriff's Department in deterring criminal activity.</p>	Project applicant	Semitropic	Confirm that 24-hour on-site security is provided for at recreation facilities and boat docks on all four Project islands.	On-going: operation	
<p>Mitigation Measure UT-MM-6: Incorporate Fire Protection Features into Recreation Facility Design</p> <p>The Project will require recreation facilities to incorporate the Uniform Building Codes and the Uniform Fire Codes into the design of the recreation facilities and boat docks.</p>	Project applicant	Semitropic	Confirm that the Project facilities incorporate the Uniform Building Codes and the Uniform Fire Codes into the design of the recreation facilities and boat docks.	Prior to final design approval	
<p>Mitigation Measure UT-MM-7: Provide Fire Protection Services to Webb Tract and Bacon Island</p> <p>The Project, in coordination with the county and the Local Agency Formation Commission (LAFCO), will incorporate Webb Tract and Bacon Island into an existing fire protection district.</p>	Project applicant	Semitropic	Confirm that through coordination with the county and the LAFCO, the Webb Tract and Bacon Island are incorporated into an existing fire protection district or that a new fire protection district is created to serve these islands upon full development of the recreation facilities.	Prior to operation	
<p>Mitigation Measure UT-MM-8: Obtain Appropriate Local and State Permits for Recreation Facility Services and Utilities</p> <p>Before construction of the proposed recreation facilities, the Project will obtain all required permits and approvals from local and state agencies for the design and construction of utilities and services, including, but not limited to, water supply, sewage disposal, and solid waste disposal on the Project islands.</p> <p>In order to obtain a sewage permit in San Joaquin County, the Project will submit an application along with a work plan for the recreation facilities to the San Joaquin County Environmental Health Department. The work plan will be reviewed by the Environmental Health Department to ensure compliance with all county requirements, and a permit will be issued or denied based on the findings of the review (Jones & Stokes 2001).</p>	Project applicant	Semitropic	Confirm that all required permits and approvals from local and state agencies have been obtained before construction begins for the design and construction of utilities and services.	Prior to construction	

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<p>Contra Costa County Environmental Health Division issues sewage permits in Contra Costa County. As with San Joaquin County, the Project will be required to submit an application. In addition, the Project will be required to submit three sets of plans for the recreation facilities along with a site map depicting existing structures and resources on the islands, and a safety plan. Issuance of the permit will be based on compliance with all County requirements, review of the application, and site visit information obtained by the health inspector (Jones & Stokes 2001).</p> <p>If, when specific design details are submitted to the appropriate regulating agencies, the agency determines that site-specific environmental impacts are not covered in enough detail by the NEPA and CEQA documentation already completed for the Project, additional environmental documentation may be required prior to approval of permits, entitlements, or alternative treatment methods.</p>					
Fishery Resources					
<p>Mitigation Measure FISH-MM-1: Conservation of Shallow-Water Vegetated Habitat</p> <p>The Project facilities will be designed to minimize impacts to shallow-water vegetated habitat. The Project will conserve such habitat affected by construction of Project facilities at a ratio of 3:1. The acreage affected will be determined based on the final construction footprint acreage and surveys of the affected area. The Project will compensate for the affected shallow-water vegetated habitat by placement of a conservation easement on tidal habitat at the Chipps Island site owned by the Project applicant prior to construction.</p>	Project applicant	Semitropic	Confirm the Project facilities are designed to minimize impacts to shallow-water vegetated habitat and that habitat is conserved at a 3:1 ratio. Confirm that the Project compensates for the affected shallow-water habitat by placement of a conservation easement on tidal habitat at the Chipps Island site.	Prior to final design approval	
<p>Mitigation Measure FISH-MM-2: Site Project Facilities to Avoid Existing Shallow-Water Vegetated Habitat</p> <p>Project facilities will be sited at locations that avoid existing shallow-water vegetated habitat. Surveys of vegetation in shallow-water habitat will be undertaken by qualified botanists to determine appropriate locations to minimize impacts.</p>	Project applicant	Semitropic	Confirm completion of surveys of vegetation in shallow-water habitat by a qualified biologist to determine appropriate locations to minimize impacts. Confirm that Project facilities are located at locations that avoid existing shallow-water vegetated habitat.	Prior to final design approval	
<p>Mitigation Measure FISH-MM-3: Limit Waterside Construction to Less-Sensitive Time Periods</p> <p>Waterside construction of Project facilities will be restricted to the July–October period. This will minimize exposure of sensitive species such as delta smelt, longfin smelt, Chinook salmon and steelhead to the possible negative effects of construction activities.</p>	Project applicant	Semitropic	Confirm that waterside construction is restricted to the July–October period.	On-going: construction	

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<p>Mitigation Measure FISH-MM-4: Implement Best Management Practices for Waterside Construction</p> <p>Construction activities for the Project facilities will have BMPs implemented to minimize habitat alteration. A stormwater pollution prevention plan will be developed for use during construction, following guidelines provided by the California Stormwater Quality Association (2003). BMPs will be documented and adhered to and will be based on guidelines provided in the California Stormwater BMP Handbook for Construction (California Stormwater Quality Association 2003). The following elements will be covered by the BMPs:</p> <ul style="list-style-type: none"> • erosion control, • sediment control, • wind erosion control, • tracking control, • non-stormwater management, • waste management and materials pollution control. <p>In addition, underwater sound pressure change impacts from pile driving and related activities will be reduced by employing appropriate technology to avoid sound threshold exceedance. Vibration hammers or percussive hammers with bubble curtains may be used during in-water work.</p>	Project applicant	Semitropic	Confirm the implementation of BMPs and a stormwater pollution prevention plan during construction of the Project facilities. Confirm the use of appropriate technology to avoid sound threshold exceedance from pile driving and related activities..	On-going: construction	
<p>Mitigation Measure FISH-MM-5: Implement a Fishery Improvement Mitigation Fund</p> <p>The Project applicant will implement a fishery improvement mitigation fund that will provide monetary compensation to support habitat enhancement and conservation of fish populations. Annual fund contributions will be based on the annual quantity of water diverted to the Project Reservoir Islands, the amount of this water exported, and Project effects. Previously, DFG and NMFS imposed permit terms that called for between \$750–1,250/TAF for diversions during October through August and \$2,250/TAF for export discharges. Revised permit terms may be established by USFWS, DFG, and NMFS. Initial funding will be provided prior to implementing the Project.</p> <p>Use of the monies from the fund will be at the discretion of the resource agencies that will implement actions to improve habitat conditions and decrease mortality for species impacted by the Project; it is expected that money from the fund will be contributed to several of the following improvement actions:</p> <ul style="list-style-type: none"> • Augmentation of spawning and rearing habitat for salmonids in tributaries of the Central Valley. A good example is opportunities to provide funding toward the Battle Creek Salmon and Steelhead Restoration Project implemented by DWR, Reclamation, USFWS, DFG, and NMFS. • Restoration of habitat within the Delta. There are opportunities to contribute funds to the Delta Pumping Plant Fish Protection Agreement (i.e., Four Pumps Agreement) which calls for cost-sharing and has successfully conducted restoration projects, installed screens and barriers, and increased enforcement in the Delta. • Rearing and releasing additional fish. There is an opportunity to contribute to the UC Davis/USFWS Fish Conservation and Culture Facility that is currently rearing delta smelt as a safeguard against further declines in the wild population but requires additional facilities to maintain sufficient family groups to maintain genetic diversity. • Improving fish salvage operations. There is an opportunity to contribute to DWR and Reclamation's efforts to improve salvage techniques at the SWP and CVP fish facilities in accordance with the NMFS (2009) OCAP BO. 	Project applicant	Semitropic	Confirm that a fishery improvement mitigation fund has been implemented and that annual fund contributions are made.	Prior to operation	

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<p>Mitigation Measure FISH-MM-6: Establish a Shallow-Water Aquatic Habitat Conservation Easement</p> <p>Prior to construction, the Project will secure a perpetual conservation easement (easement) for 200 acres of shallow-water aquatic habitat on Chipps Island that are owned by the Project applicant but not currently protected by easement or covenant. The easement will fully protect in perpetuity the shallow-water aquatic habitat. A management plan for the easement area will be developed by the Project within the first year of Project operation for the habitat covered by the easement, and will be incorporated as an exhibit to the easement.</p> <p>Additionally, the Project will demonstrate to the USFWS documentation that there is adequate financing for the perpetual management of the habitat protected by the conservation easement consistent with the management plan including that (1) adequate funds for the management of habitat in perpetuity protected by the conservation easement have been transferred to an appropriate third-party, and (2) the third party has accepted the funds and (3) such funds have been deposited in an interest-bearing account intended for the sole purpose of carrying out the purposes of this easement.</p> <p>The easement (along with a title report for the easement area) and management plan will be approved by the USFWS prior to recordation. After approval, the easement and management plan will be recorded in the appropriate County Recorder's Office(s). A true copy of the recorded easement will be provided to the USFWS within 30 days after recordation.</p> <p>The conservation easement will mitigate for potential losses of larval/early juvenile smelt rearing habitat. For delta smelt, the average impact in terms of the loss of optimal salinity habitat was actually a very slight benefit of 0.04 km² increased area (9.9 acres per year). The maximum impact was a decrease of 0.79 km² (195 acres). This is approximately the size of the proposed conservation easement of 200 acres of habitat at Chipps Island.</p>	Project applicant	Semitropic	Confirm that a shallow-water aquatic habitat conservation easement on Chipps Island owned by the Project applicant but not currently protected by easement or covenant has been secured. Confirm that a management plan for the easement area has been developed within the first year of Project operation. Confirm that the Project demonstrates to the USFWS that there is adequate financing for the perpetual management of the habitat protected by the conservation easement consistent with the management plan.	Prior to construction Within one year of operation	
Vegetation and Wetlands					
<p>Mitigation Measure VEG-MM-1: Site Project Facilities to Avoid Special- Status Plant Populations</p> <p>The Project applicant will conduct special-status plant surveys before construction of Project facilities and will site facilities to avoid special-status plant populations. If special-status plant species are discovered, Mitigation Measures VEG-MM-2 and VEG-MM-3 will be required.</p>	Project applicant	Semitropic	Confirm completion of special-status plant surveys before construction of Project facilities and siting of facilities to avoid special-status plant populations. Confirm the implementation of Mitigation Measures VEG-MM-2 and VEG-MM-3 if special-status plant species are discovered.	Prior to final design approval	

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<p>Mitigation Measure VEG-MM-2: Protect Special-Status Plant Populations from Construction and Recreation Activities</p> <p>To mitigate potential indirect impacts of construction, the Project will use several measures to protect special-status plants that are within 200 feet of Project facility sites. First, the boundaries of each population will be determined and marked with surveyor's flagging. Second, special-status plants within 100 feet of Project facility sites will be protected by temporary barricades erected 50 feet from the edge of the population nearest the facility site. Plants 100–200 feet from the construction sites will be identified with brightly colored flagging on vegetation and/or surveyor's stakes that are plainly visible to construction personnel approaching the area occupied by the plants. Flagging will not be obscured by vegetation. Construction crews and Project maintenance personnel will be informed of the presence of the plants, the function of the barricades and flagging, and the strict avoidance requirements. If special-status plant populations are inadvertently affected by construction, the Project applicant will contact DFG and discuss appropriate mitigation to offset impacts, including development of a mitigation monitoring program and performance standards. Areas that support special-status plant populations will be posted as sensitive and public access limited. If special-status plant populations are inadvertently affected by recreational uses, per Mitigation Measure VEG-MM-3 the Project will contact DFG and discuss appropriate mitigation to offset impacts, including development of a mitigation monitoring program and performance standards.</p>	Project applicant	Semitropic	Confirm the protection of special-status plants through the implementation of measures, including marking the boundaries of special-status plant populations with surveyor's flags, protecting special-status plants within 100 feet of Project facility sites with barricades, identifying special-status plants 100-200 feet from the construction sites with surveyor's flags and contacting CDFG if special-status plants are inadvertently affected by construction.	On-going: construction	
<p>Mitigation Measure VEG-MM-3: Develop and Implement a Special-Status Plant Species Monitoring and Mitigation Plan</p> <p>The Project applicant, in consultation with DFG and USFWS, will develop and implement a plan for mitigating unavoidable impacts on special-status plant populations. At a minimum, this plan will include:</p> <ul style="list-style-type: none"> • guidelines for conducting preconstruction surveys, • avoidance and protection guidelines for individual species, and • measures that promote the protection and enhancement of existing populations. <p>Although the protection and enhancement of existing habitat will be the primary focus of the plan, it may also include the transplantation of individuals or colonies, collection and planting of seeds or nursery grown plants, and creation of new habitat, provided such mitigation has a high potential for success. Additionally, the plan will include monitoring guidelines to ensure the successful protection, avoidance, and/or establishment of special-status plants.</p>	Project applicant	Semitropic	Confirm the development and implementation of a special-status plant species monitoring and mitigation plan in consultation with CDFG and USFWS. Confirm that the plan includes guidelines for conducting preconstruction surveys, avoidance and protection guidelines for individual species and measures that promote the protection and enhancement of existing populations.	Prior to construction	
Wildlife					
<p>Mitigation Measure W-MM-1: Monitor Effects of Aircraft Flights on Greater Sandhill Cranes and Wintering Waterfowl and Implement Actions to Reduce Aircraft Disturbances of Wildlife</p> <p>The Project applicant will develop a monitoring program in consultation with DFG and the Habitat Management Advisory Committee (HMAC) and implement the program to determine whether airstrip use on hunt days has a deleterious impact on greater sandhill cranes or waterfowl. The plan will be submitted to the State Water Board's Chief of the Division of Water Rights within 1 year of issuance of Project operation permits.</p> <p>The following will be the major elements of the monitoring plan:</p> <ul style="list-style-type: none"> • criteria for evaluating monitoring data that would be used to determine whether use of the airstrip on hunt days is having a significant impact on greater sandhill cranes and waterfowl (i.e., more 	Project applicant	Semitropic	Confirm the development and implementation of a sandhill crane and waterfowl monitoring program in consultation with CDFG and HMAC. Confirm the submission of the plan to the State Water Board's Chief of the Division of Water Rights within 1 year of issuance of Project operation permits.	Within 1 year of issuance of Project operation permits	

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<p>than 1 greater sandhill crane collision per year and greater than 5 waterfowl collisions per year),</p> <ul style="list-style-type: none"> criteria for determining appropriate mitigation requirements for offsetting significant impacts based on the level of impact airstrip use has on these species (i.e., restricting flights to day-time hours and clear conditions), a detailed description of monitoring protocols, and a monitoring schedule that estimates when data would be sufficient to determine whether airstrip use on hunt days has significant impacts on greater sandhill cranes or waterfowl. <p>If, based on monitoring results, airstrip use on hunt days is found to have a significant impact on greater sandhill cranes or waterfowl, DFG, in consultation with the HMAC, may recommend to the State Water Board's Chief of the Division of Water Rights that airstrip use be modified to ensure that the goals for establishment of the closed hunting zone are met. Depending on the level of impact, recommendations could include closing hunting on Bouldin Island during the landing and takeoff period, restricting the number of flights permitted per day, changing the landing and takeoff period to reduce impacts, or closing the use of the airstrip on hunt days. Conversely, if monitoring indicates that there is no significant impact on greater sandhill cranes or wintering waterfowl, DFG, in consultation with the HMAC, could recommend that the proposed initial aircraft use restrictions remain in place or be reduced.</p>					
<p>Mitigation Measure W-MM-2: Monitor Waterfowl Populations for Incidence of Disease and Implement Actions to Reduce Waterfowl Mortality</p> <p>The Project applicant will retain a qualified biologist to monitor waterfowl use areas on the Project islands to locate incidences of waterfowl disease mortalities. The Project applicant, in cooperation with DFG and USFWS, will develop management strategies to be employed in the event of disease outbreaks. On identification of a disease outbreak, the Project applicant will notify DFG and, in cooperation with DFG biologists, implement management strategies to reduce waterfowl mortality. Management actions may include removing carcasses from the Project islands, hazing waterfowl from the islands, or draining waterfowl habitats.</p> <p>Management strategies will include descriptions of:</p> <ul style="list-style-type: none"> methods used to monitor waterfowl to detect disease outbreaks, protocols for determining when and what types of management actions to reduce the incidence of disease would be implemented, methods for collecting carcasses and removing them from affected areas, potential locations and methods for disposal of collected carcasses, and methods to haze waterfowl from Reservoir Islands. 	Project applicant	Semitropic	Confirm that waterfowl use areas on the Project islands are being monitored by a qualified biologist to locate incidences of waterfowl disease mortalities. Confirm the development, in cooperation with CDFG and USFWS, of management strategies to be employed in the event of disease outbreak. Confirm that the notification of CDFG and implementation of management strategies upon identification of a disease outbreak.	On-going: construction	

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Land Use and Agriculture					
<p>Mitigation Measure LU-MM-1: Provide Funding to Semitropic to Further District Goals of Sustaining Agriculture.</p> <p>During each of the first 10 years of the Project operations, Delta Wetlands will provide to the Semitropic Water Storage District \$500,000, for a total of \$5,000,000. The funding is intended to further the Semitropic's goals of sustaining agriculture through the provision of agricultural surface water to farmers within its boundaries at least cost and provide long term reliability. It would be used for the following purposes:</p> <ul style="list-style-type: none"> • Purchase of voluntary conservation easements over prime farmland in Semitropic. • Purchase of imported water by the Semitropic. • Development and operation of infrastructure needed to deliver water to and within Semitropic. • Other purposes consistent with the Semitropic's mission. 	Project applicant (funding)	Semitropic	Confirm that \$500,000 per year for the first 10 years of the project, for a total of \$5,000,000 is provided to Semitropic for purpose of sustaining agriculture in Semitropic service area; identify and distribute funds for specific activities	First year of Project operation and every year for the next 9years	
Recreation and Visual Resources					
<p>Mitigation Measure REC-MM-1: Reduce the Size or Number of Recreation Facilities</p> <p>The Project will reduce the total number or size of recreation facilities proposed by removing all 22 facilities proposed for construction from Bacon Island and Webb Tract, and reducing the number or size of proposed facilities on Bouldin Island and Holland Tract by 70%. This will reduce the number of permanent boat docking spaces provided by the recreation facilities from 2,508 to 330 slips, and will result in an approximately 86% reduction in Project recreation facilities.</p>	Project applicant	Semitropic	Confirm the removal of all 22 facilities proposed for construction from Bacon Island and Webb Tract and a reduction of the number or size of proposed facilities on Bouldin Island and Holland Tract by 70%.	Prior to final design approval	
<p>Mitigation Measure REC-MM-2: Partially Screen Proposed Recreation Facilities and Pump and Siphon Stations from Important Viewing Areas</p> <p>The Project will, consistent with flood control and levee or facility maintenance requirements, establish screening that could consist of native trees, shrubs, landscape berms, and ground covers between the Project facilities and designated scenic waterways. Landscape berms near structures will provide partial screening and will better connect the buildings visually to the site and the area. Screening vegetation will be planted in locations and at a density that would provide at least a 50% visual screen after 5 years.</p>	Project applicant	Semitropic	Confirm that proposed recreation facilities and pump and siphon stations are screened with native trees, shrubs, landscape berms, and ground covers between the Project facilities and designated scenic waterways. Confirm that vegetation provides at least a 50% visual screen after 5 years.	On-going: construction	
<p>Mitigation Measure REC-MM-3: Design Levee Improvements, Siphon and Pump Stations, and Recreation Facilities and Boat Docks to Be Consistent with the Surrounding Landscape</p> <p>The Project will require that pump and siphon station structures and recreation facilities be painted in earth tones to blend with the surrounding landscape. Rock revetment material will be selected to blend with the surrounding landscape. The Project will limit structure heights and emphasize horizontal features in its design. Boat docks and related structures will be constructed of natural appearing materials with subdued, earth-tone colors to blend in with the surrounding environment.</p>	Project applicant	Semitropic	Confirm that levee improvements, siphon and pump stations, recreation facilities and boat docks are designed to be consistent with the surrounding environment and use paints and materials to blend with the surrounding landscape.	Prior to final design approval	

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Traffic and Navigation					
<p>Mitigation Measure TRA-MM-1: Develop and Implement a Traffic Control Plan</p> <p>In keeping with standard practice, prior to beginning construction of any portion of the proposed Project, the contractor will develop and implement a Traffic Control Plan (TCP). The TCP will be implemented throughout the course of Project construction and will:</p> <ul style="list-style-type: none"> a. contain a plan for communicating construction plans with transit providers, emergency service providers, residences, and businesses located in the Project vicinity and anyone else who may be affected by Project construction; b. identify roadway segments or intersections that are at or approaching an LOS that exceeds local standards and provide a means for construction-generated traffic to avoid these locations at the peak periods either by traveling different routes or by traveling at nonpeak times of day; c. contain an access and circulation plan for use by emergency vehicles when lane closures and/or detours are in effect; if lane closures occur, provide advance notice to local fire and police departments to ensure that alternative evacuation and emergency routes are designed to maintain response times; d. maintain access to existing residences in the area at all times; e. provide adequate parking for construction trucks and equipment within the designated staging areas throughout the construction period; f. provide adequate parking for construction workers within the designated staging areas; g. require traffic controls on roadways adjacent to the proposed Project, including flag persons wearing bright orange or red vests and using a "Stop/Slow" paddle to control oncoming traffic; construction warning signs should be posted in accordance with local standards or those set forth in the Manual on Uniform Traffic Control Devices (Federal Highway Administration 2003) in advance of the construction area and at any intersection that provides access to the construction area; h. require that written notification be provided to contractors regarding appropriate routes to and from the construction site and the weight and speed limits on local roads used to access the construction site; and i. specify that a sign be posted at all active construction areas giving the name and telephone number or email address of the County staff person designated to receive complaints regarding construction traffic. In addition, the following notes will be placed on all grading and building permits: "No construction equipment will be transported or materials delivered between the hours of 6:00 a.m. and 9:00 a.m. or 4:00 p.m. and 6:00 p.m. Monday through Friday (traffic peak hours)." "No local roads traversing a nearby neighborhood may be used as access to the project site by construction equipment or delivery equipment." Upon application of Mitigation Measure TRA-MM-1, all Project impacts on roadway LOS during construction of Alternative 2 would be reduced to a less-than-significant level. 	Project applicant		Confirm the development and implementation of a traffic control plan.	Prior to construction On-going: construction	

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<p>Mitigation Measure TRA-MM-2: Clearly Mark Intersections with Poor Visibility in the Project Vicinity</p> <p>Before beginning construction at any of the Project sites, visibility at intersections in the Project vicinity will be assessed visually. If visibility is poor at any intersection, highly visible signs will be posted at all approaches to the intersection stating that construction activity is taking place and that drivers should be aware of construction vehicles traveling on roads in the area.</p> <p>A construction contractor and a representative of the San Joaquin County Department of Public Works will visually assess visibility at intersections along Bacon Island Road, SR 4 from I-5 to Bacon Island Road, SR 4 from Bacon Island Road to the San Joaquin County line, and SR 12 from I-5 to the west end of Bouldin Island.</p> <p>A construction contractor and a representative of the Contra Costa County Department of Public Works will visually assess visibility at intersections along SR 4 from the Contra Costa County line to SR 160, Jersey Island Road from Cypress Road to the Jersey-Bradford-Webb ferry, Cypress Road from SR 4 to Jersey Island Road, Delta Road from SR 4 to Holland Tract Road, Holland Tract Road from Delta Road to its end, Byron Highway from SR 4 to Delta Road, and SR 12 from the west end of Bouldin Island to SR 160.</p>	Project applicant	Semitropic	Confirm that visibility at intersections in the Project vicinity will be assessed visually. Confirm that highly visible signs are posted at intersections with poor visibility.	Prior to Construction On-going: construction	
<p>Mitigation Measure TRA-MM-3: Clearly Mark the Barge and Notify the U.S. Coast Guard of Construction Activities</p> <p>The construction contractor will ensure that the barge is well marked and lit in accordance with Title 14 of the California Code of Regulations, Section 7000 <i>et seq.</i> Additionally, the construction contractor will contact the U.S. Coast Guard 2 weeks before construction begins so that the Coast Guard can issue a notice to mariners alerting them to the presence of the barge and to construction activities occurring in the area. The contractor must inform the Coast Guard of the location and type of activity, whether night operations will be taking place, and whether there will be lights and buoys (Jones & Stokes 2001). These safety measures are common practice for contractors performing work in marine environments (Jones & Stokes 2001).</p>	Project applicant	Semitropic	Confirm that the barge has been clearly marked and lit in accordance with Title 14 of the California Code of Regulations. Confirm that the construction contractor has notified the U.S. Coast Guard 2 weeks before beginning construction of the location and type of activity, whether night operations will be taking place, and whether there will be lights and buoys.	Prior to Construction On-going: construction	
<p>Mitigation Measure TRA-MM-4: Clearly Post Waterway Intersections, Speed Zones, and Potential Hazards in the Project Vicinity</p> <p>Prior to operation of the Project recreation facilities, intersections will be assessed for speed requirements, poor visibility, and any unposted areas or potential hazards with respect to boating. If poor visibility or any potential boating hazards exist, these areas will be marked with buoys, waterway markers, and information signs in accordance with the California uniform waterway marking system or federal lateral waterway system. Speed requirements will be posted and enforced in accordance with local and state laws and ordinances. Regulations for boating activities proposed by local agencies must be submitted to, reviewed, and approved by the California Department of Boating and Waterways in accordance with the California Harbors and Navigation Code before they are adopted and implemented.</p>	Project applicant	Semitropic	Confirm the assessment of intersections for speed requirements, poor visibility, and any unposted areas or potential hazards with respect to boating and where necessary the marking of intersections for safety in accordance with the California uniform waterway marking system or federal lateral waterway system. Confirm that speed requirements are posted and enforced in accordance with local and state laws and ordinances.	Prior to operation	

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Mitigation Measures	Implementation Responsibility	Monitoring Responsibility	Monitoring and Reporting Actions	Timing	Verification of Compliance
Cultural Resources					
<p>Mitigation Measure CUL-MM-1: Prepare and Implement a Historic Properties Treatment Plan Prior to implementation of any Project activities, the lead agency will ensure that a Historic Properties Treatment Plan (HPTP) is prepared and implemented by individuals who meet the Secretary of Interior's Standards for Archaeology, History, and Architectural History. This HPTP will include specific detailed guidance and methods to mitigate impacts to a less-than-significant level. The HPTP will include the following components:</p> <p>Mitigation Measure CUL-MM-1a: Complete Historic Research, Measured Drawings, and Photographic Documentation of the Bacon Island Rural Historic District. This documentation will meet the minimum requirements of the Historic American Building Survey/Historic American Engineering Record/Historic American Landscape Survey for resources with national significance. This component of the HPTP will be completed before components CUL-MM-1c and CUL-MM-1d so the results may be integrated into the products required by those components.</p> <p>Mitigation Measure CUL-MM-1b: Prepare and Implement an Archaeological Resources Data Recovery Plan. This plan will specify how significant archaeological data will be recovered from the Bacon Island Rural Historic District, analyzed, and reported to professionals and the public. This component of the HPTP will be completed before components CUL-MM-1c and CUL-MM-1d so the results may be integrated into the products required by those components.</p> <p>Mitigation Measure CUL-MM-1c: Produce a Publication to Disseminate Historical Information regarding the Bacon Island Rural Historic District to the Public. This document should combine historical photographs with information gathered from historical research and interviews to describe the history of Bacon Island and its relevance to modern society. The publication should be prepared for use by schools, historical societies, local museums, and the general public.</p> <p>Mitigation Measure CUL-MM-1d: Prepare a Video That Disseminates Historical Information and Explains the Character-Defining Features of the Bacon Island Rural Historic District to the Public. This production should be prepared to meet the technical requirements for airing on the Public Broadcasting System (PBS), as specified in the PBS producers' handbook.</p>	Project applicant	Semitropic	Confirm the preparation and implementation of a historic properties treatment plan (HPTP) by individuals who meet the Secretary of Interior's Standards for Archaeology, History, and Architectural History. Confirm that the HPTP includes detailed guidance and methods to mitigate impacts to a less-than-significant level and includes the listed components.	Prior to construction On-going: construction	
<p>Mitigation Measure CUL-MM-1e: Provide Methods and Guidance for Subsurface Testing in the Form of Remote Sensing and Excavation. This testing will determine the presence or absence of significant archaeological remains within Piper soils in the Project area. If significant archaeological resources are identified, prepare and implement an archaeological resources data recovery plan that specifies how significant archaeological data will be recovered from the Piper soils in the Project area, analyzed, and reported to professionals and the public. Specify notification procedures in the event of discovery of cultural materials in the archaeologically sensitive Piper sand deposits. The HPMP will include a monitoring plan to address impacts resulting from inadvertent discovery of cultural resources during ongoing Project operations and will outline treatment and management requirements for these resources.</p>	Project applicant	Semitropic	Confirm that methods and guidance for subsurface testing in the form of remote sensing and excavation has been provided. Confirm that if significant archaeological resources are identified that an archaeological resources data recovery plan is prepared and implemented. Confirm that the HPMP includes a monitoring plan to address impacts resulting from inadvertent discovery of cultural resources during ongoing Project operations.	Prior to construction On-going: construction	

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Mitigation Measures	Implementation Responsibility	Monitoring Responsibility	Monitoring and Reporting Actions	Timing	Verification of Compliance
<p>Mitigation Measure CUL-MM-1f: Negotiate, Prepare, and Implement a Preburial Agreement with the Most Likely Descendant (as Determined by the Native American Heritage Commission) of Potential Native American Interments Located in Webb Tract Piper Sands in the Project Area. Specific mitigation and/or treatment in relation to the potential for burials will be dependent upon this negotiation. Mitigation and/or treatment typically includes adoption of project design guidelines that minimize disturbance to sensitive areas as well as methods and guidance for: identifying intact interments; recovery, treatment, and reburial of interments; and the ultimate ownership of human remains and burial items. Mitigation and/or treatment also typically includes methods and guidance in the event of an inadvertent discovery of human remains.</p>	Project applicant	Semitropic	Confirm the negotiation, preparation and implementation of a preburial agreement with the Most Likely Descendant of Potential Native American Interments Located in Webb Tract Piper Sands in the Project Areas has been completed.	Prior to final design On-going: construction	
Mosquitoes and Public Health					
<p>Mitigation Measure PH-MM-1: Develop an Integrated Pest Management Program and Coordinate Project Activities with SJCMVCD and CCCMVCD</p> <p>This mitigation measure has been updated to incorporate new information that has become available since the publication of the 2001 FEIR and 2001 FEIS— specifically, new guidelines for wetland design and management, described above in the New Information discussion. Implementation of this mitigation measure will reduce the likelihood that Project operations will require an increase in abatement activities by the local MVCDs.</p> <p>The Project applicant, DFG, and the Habitat Management Advisory Council (HMAC) will consult and coordinate with the SJCMVCD and CCCMVCD during all phases of the Project, including design, implementation, and operations, and the Habitat Management Plan will be updated in accordance with the best management practices identified in the Central Valley Joint Venture's Technical guide to <i>Best Management Practices for Mosquito Control in Managed Wetlands</i> (Kwasny et al. 2004) and other guidelines listed above in the "New Information" discussion. The Project applicant will be responsible for coordination with SJCMVCD and CCCMVCD regarding mosquito control measures for the Reservoir Islands, and the Project applicant, DFG, and the HMAC will be responsible for coordination regarding the Habitat Islands. Consultation and coordination with SJCMVCD and CCCMVCD will include the development of an IPM plan for mosquitoes that follows the guidelines of the <i>Best Management Practices for Mosquito Control in Managed Wetlands</i> (Kwasny et al. 2004) and other guidelines listed in the New Information section above, and contains a continual maintenance program. An example list of the types of BMPs that should be considered in the IPM plan follows.</p> <p><i>Wetland Design Features</i></p> <ul style="list-style-type: none"> • Design water delivery and drainage systems to allow for rapid manipulation of water levels within the wetlands. This could include construction of swales sloped from inlet to outlet to allow the majority of the wetland to be drawn down quickly, and independent inlets and outlets for each wetland unit. • Ensure that shorelines, which may be vacillating, do not isolate from the main body of water sections that create pockets where mosquitoes would be free of competition and predation. • Create basins with a high slope index, variable depths, and shallow and deep regions that provide open water zones adjacent to shallow vegetated zones. • Install cross-levees to facilitate more rapid flood-up. • Excavate deep channels or basins to maintain permanent water areas (deeper than 2.5 feet) within a portion of seasonal wetlands to provide year-round habitat for mosquito predators that can inoculate seasonal wetlands when flooded. <p><i>Water Management Practices</i></p>	Project applicant	Semitropic	Confirm preparation and compliance with an Integrated Pest Management Program and coordination of Project activities through coordination with CDFG, HMAC, SJCMVCD and CCCMVCD. Confirm that the Habitat Management Plan is updated accordingly.	Prior to operation On-going: operation	

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Mitigation Measures	Implementation Responsibility	Monitoring Responsibility	Monitoring and Reporting Actions	Timing	Verification of Compliance
<ul style="list-style-type: none"> • Delay flooding of some wetland units until later in the fall, and delay flooding units with greatest historical mosquito production and/or those closest to urban areas. • Flood wetland units as quickly as possible. • Ensure constant flow of water into wetlands to reduce water fluctuation from evaporation, transpiration, outflow, and seepage. • Flood wetland as deep as possible at initial flood-up. • Flood wetlands with water sources containing mosquitofish or other invertebrate predators. Water from permanent ponds can be used to passively introduce mosquito predators. • Drain any irrigation water into locations with mosquito predators as opposed to adjacent seasonal wetland or dry fields. • Avoid “pulses” of increased organic load to inhibit episodic fluctuation in mosquito population numbers during the months of April–October. • Use flood and drain techniques as a method to eliminate larvae. <p><i>Vegetation Management Practices</i></p> <ul style="list-style-type: none"> • Avoid continuous stands of emergent vegetation. These stands generate microhabitats that support mosquito productivity by providing refuge from predation, accumulation and concentration of organic foods, and interference with water circulation and wave action. • Maintain aquatic vegetation in islands surrounded by deeper water. This breaks up the uniform microhabitat and provides variable physical and biological constraints on the mosquito population. • Avoid plants that tend to mat the water surface. Promote plants in islands such as bulrush and cattails, which function as substrate for mosquito predators. Plants such as sago pondweed for example, are completely submergent and contribute little to mosquito refuge while providing good predator refuge and even waterfowl food. <p><i>Wetlands Maintenance</i></p> <ul style="list-style-type: none"> • Maintain levees, water control structures, and ditches regularly. • Manage vegetation through periodic harvesting, thinning, discing, or burning to maintain open areas. • Remove silt and detritus periodically to maintain regular wetland depth. <p><i>Biological Controls</i></p> <ul style="list-style-type: none"> • Encourage on-site predator populations by providing permanent water sources for mosquitofish. Such “dry season” predator reservoirs should be 18 inches or more in depth to reduce predation of mosquitofish by herons and egrets. • Avoid use of broad spectrum insecticides that not only kill mosquitoes, but also eliminate their natural predators. <p>Ensure mosquitofish have access to each basin.</p> <p><i>Consultation with CCCMVCD and SJCMVCD</i></p> <ul style="list-style-type: none"> • Consult with CCCMVCD and SJCMVCD during the Project design phase to incorporate design and operational elements of the reservoir and Habitat Islands to reduce the mosquito production potential of the Project. • Consult with CCCMVCD and SJCMVCD on the timing of wetland flooding. 					

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<ul style="list-style-type: none"> Regularly consult with SJCMVCD and CCCMVCD to identify mosquito management problems, mosquito monitoring and abatement procedures, and opportunities to adjust operations to reduce mosquito production during problem periods. Develop an access plan with the CCCMVCD and SJCMVCD to allow for monitoring and control of mosquito populations on the Project islands. Work with CCCMVCD and SJCMVCD to understand pesticides used for mosquito abatement, and their costs and environmental impacts. If it is necessary for SJCMVCD and CCCMVCD to increase mosquito monitoring and control programs beyond pre-Project levels, the Project applicant will share costs with CCCMVCD and SJCMVCD or otherwise participate in implementing mosquito abatement programs. 					
Air Quality					
<p>Mitigation Measure Air-MM-1: Perform Routine Maintenance of Construction Equipment</p> <p>During construction under Alternative 2, the primary source of CO emissions and other pollutants, including ROG and NOX, is the exhaust generated by earthmoving equipment and other construction and transport vehicles. Therefore, construction crews will be required to perform routine maintenance of earthmoving equipment, as well as all other construction and transport vehicles. Routine maintenance involves oil changes and tune-ups performed at least as frequently as recommended by the manufacturers. This measure will be included as a condition of the construction contract and will be enforced through weekly inspection by the Project proponent.</p>	Project applicant	Semitropic	Confirm that construction crews perform routine maintenance on all construction and transport vehicles per manufacturer's recommendation.	On-going: construction	
<p>Mitigation Measure Air-MM-2: Choose Borrow Sites Close to Fill Locations</p> <p>Construction crews will be required to take borrow material from appropriate sites located closest to intended fill locations. This measure would reduce the overall amount of equipment and vehicle operation, thereby reducing exhaust emissions of CO and other pollutants, including ROG, NOX, and PM10. This measure also would reduce the amount of PM10 emitted into the air by vehicles traveling over unpaved or dusty surfaces, the main source of PM10 emissions during construction. This measure will be included as a condition of the construction contract and will be enforced through weekly inspection.</p>	Project applicant	Semitropic	Confirm that construction crews take borrow material from appropriate sites located closest to intended fill locations.	On-going: construction	
<p>Mitigation Measure Air-MM-3: Prohibit Unnecessary Idling of Construction Equipment Engines</p> <p>Construction crews will be prohibited from leaving construction equipment or other vehicle engines idling when not in use for more than 5 minutes. This measure would reduce the amount of CO and other pollutants, including ROG, NOX, and PM10, emitted in engine exhaust. This measure will be included as a condition of the construction contract and will be enforced through weekly inspection.</p>	Project applicant	Semitropic	Confirm that construction equipment or other vehicles are not idling when not in use for more than 5 minutes.	On-going: construction	
<p>Mitigation Measure Air-MM-4: Coordinate with the SJVAPCD and BAAQMD to Reduce or Offset Emissions</p> <p>The Project will coordinate with the SJVAPCD and the BAAQMD to implement measures to reduce or offset ROG and NOX emissions of the Project operations. These measures may include implementing a voluntary emission reduction agreement (VERA). The SJVAPCD has encouraged use of a VERA as a means to reduce emissions from CEQA projects.</p>	Project applicant	Semitropic	Confirm the coordination with the SJVAPCD and BAAQMD to implement measures to reduce or offset ROG and NOX emissions of the Project operations.	Prior to construction On-going: construction	

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<p>Mitigation Measure Air-MM-5: Use Electrically Powered Pumps in Lieu of Diesel Powered Pumps</p> <p>In the event that Mitigation Measure Air-MM-4 is not sufficient to reduce emissions to less than significant, electrically powered pumps will be used in lieu of diesel-powered pumps, which would reduce the increase in operational NOX emissions to less than the daily and annual significance thresholds.</p>	Project applicant	Semitropic	Confirm that in the event that Mitigation Measure Air-MM-4 is not sufficient to reduce emissions to less than significant, electrically powered pumps are used in lieu of diesel-powered pumps.	On-going: operation	
<p>Mitigation Measure Air-MM-6: Implement Construction Practices that Reduce Generation of Particulate Matter</p> <p>Construction crews will be required to implement the following measures throughout the construction period to reduce generation of particulate matter in the vicinity of construction sites:</p> <ul style="list-style-type: none"> • Pave, apply water three times daily, or apply soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites. • Use appropriate dust control measures, including effective application of water or presoaking, during land preparation and excavation. • Cover or water all soil transported offsite to prevent excessive dust release. • Sprinkle all disturbed areas, including soil piles left for more than 2 days, onsite unpaved roads, and offsite unpaved access roads, with water to sufficiently control windblown dust and dirt. • Sweep daily (with water sweepers) all paved access roads, parking areas, and staging areas at construction sites. • Hydroseed or apply soil stabilizers to inactive construction area (previously graded areas inactive for ten days or more). • Install sandbags or other erosion control measures to prevent silt runoff to public roadways. • Replant vegetation in disturbed areas as quickly as possible. • Install wheel washers for all exiting trucks or wash off the tires or tracks of all trucks and equipment leaving the site. • Install wind breaks or plant trees/vegetation wind breaks at windward side(s) of construction areas. • Limit construction vehicle speeds to 15 mph on unpaved surfaces. • Prohibit dust-producing construction activities when wind speeds reach or exceed 20 mph. • All areas used for storage of construction vehicles, equipment, and materials will comply with the measures described above. • Comply with all relevant components of the SJVAPCD's Regulation 8. <p>These measures will be included as a condition of the construction contract and will be enforced through weekly inspection by the Project proponent.</p>	Project applicant	Semitropic	Confirm that construction crews implement the listed measures to reduce the generation of particulate matter in the vicinity of construction sites.	On-going: construction	

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Noise					
<p>Mitigation Measure NOI-MM-1: Limit Construction Hours and Comply with all Applicable Local Noise Standards</p> <p>In addition to complying with all applicable local noise standards, the Project applicant will limit construction activities that create noise near sensitive use areas to the hours between 7:00 a.m. and 8:00 p.m.</p>	Project applicant	Semitropic	Confirm that construction activities that create noise near sensitive use areas are limited to the hours between 7:00 a.m. and 8:00 p.m.	On-going: construction	
Cumulative Impacts					
<p>Mitigation Measure CUM-MM-1: Operate the Project to Prevent Unacceptable Hydrodynamic Effects in the Middle River and Old River Channels during Flows That Are Higher Than Historical Flows</p> <p>This mitigation measure has not changed since the 2001 FEIR and 2001 FEIS. USGS and DWR tidal flow measurements (i.e., velocities and stages) in south Delta channels, as well as tidal hydrodynamic model simulations, should be used to determine the effects of Project operations, and Project operations should be controlled to prevent unacceptable hydrodynamic conditions in south Delta channels. Measures that may be used to prevent unacceptable hydrodynamic effects include establishing minimum tidal stages and maximum channel velocities. Project operations would be reduced or eliminated during these extreme tidal conditions.</p>	Project applicant	Semitropic	Confirm the Project is being operated to prevent unacceptable hydrodynamic effects. Confirm the implementation of measures to prevent unacceptable hydrodynamic effects if necessary.	Prior to operation	
<p>Mitigation Measure CUM-MM-2: Clearly Post Waste Discharge Requirements, Provide Waste Collection Facilities, and Educate Recreationists regarding Illegal Discharges of Waste</p> <p>This mitigation measure has not changed since the 2001 FEIR and 2001 FEIS. Prior to operation of the Project recreation facilities, the Project applicant shall:</p> <ul style="list-style-type: none"> • Post notices at all Project recreation facilities describing proper methods of disposing of waste. Waste discharge requirements shall be posted and enforced in accordance with local and state laws and ordinances. • Provide waste collection receptacles on and around the boat docks for the boaters using the Project recreation facilities. • Provide educational materials to inform recreationists about the deleterious effects of illegal waste discharges and the location of waste disposal facilities throughout the Delta. 	Project applicant	Semitropic	Confirm posting of notices describing proper methods of disposing of waste; posting and enforcement of waste discharge requirements; placement of waste collection receptacles; and availability of education materials describing illegal discharges of waste	Prior to operation	