

10 - SJ - L5721  
20.10.201.330  
10-0N830\_  
1000000171  
September 2011

**Request Programming in the 2010 SHOPP  
And  
Provide Project Approval**

PROJECT LOCATION:

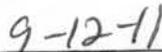
Stockton Yard Maintenance Station at 1604 South B Street in San Joaquin County

APPROVAL RECOMMENDED:

  
\_\_\_\_\_  
JUERGEN VESPERMANN  
BRANCH CHIEF ENVIRONMENTAL HAZARDOUS WASTE

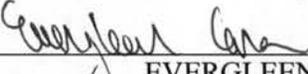
APPROVAL RECOMMENDED:

  
\_\_\_\_\_  
JOY PINNE  
PROJECT MANAGER

APPROVED:  \_\_\_\_\_  \_\_\_\_\_  
CARRIE L. BOWEN  
DISTRICT DIRECTOR  
DATE

10 - SJ - L5721  
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This project initiation document has been prepared under the direction of the following Registered Civil Engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

  
\_\_\_\_\_  
EVERGREEN CARA  
REGISTERED CIVIL ENGINEER

9/7/2011  
\_\_\_\_\_  
DATE



**Initiating Office/Initiator:**

The Program Manager for the State Highway Operations and Preservation Plan (SHOPP) Program has established that a project is needed that meets the qualification for the SHOPP Hazardous Waste Management Plan Program.

This document provides project approval and a recommendation to program the project into the current State Highway Operation and Protection Program.

**Purpose and Need:**

**Purpose:**

The purpose of this project is to reduce the contaminants in the soil and groundwater to values below regulatory thresholds at the Stockton Yard Maintenance Station by installing a designed remediation system.

**Need:**

Two underground tanks (5,000 and 10,000 gallon) were removed in 1989 from the Stockton Yard Maintenance Station. The project is needed to address gasoline and diesel contamination that was found in the soil and groundwater below these tanks. San Joaquin County Health and Human Services and the Regional Water Quality Control Board have mandated the cleanup of the soil and groundwater at the site.

**Deficiency Summary:**

In December 1989, one 5,000-gallon diesel UST, one 10,000-gallon gasoline UST, two pump islands and associated product piping were removed from the site. Analytical results of soil samples collected from the UST excavation indicated petroleum hydrocarbons as gasoline and diesel. There have been numerous investigations of the site to characterize the source area and determine the appropriate design strategy to remediate the site. Investigations have included installation of groundwater monitoring wells, installation of vapor extraction wells, quarterly groundwater sampling and monitoring, and air sparge pilot test using cone penetrometer testing and membrane interface probe. The most recent investigation was conducted in 2010 by AMEC Geomatrix under task order with Caltrans. The 2010 investigation determined that the source area is larger than previously assumed and that air sparging and soil vapor extraction are feasible methods to remediate the site.

**Project Proposal**

It is proposed to install a remediation system to reduce the concentration of petroleum hydrocarbons in the soil and groundwater at the project site.

R/W:

All proposed work would take place in State property.

Disposal Site:

No disposal site required. The project will utilize in situ treatment remedial technology to reduce the concentration of contaminants in the soil and groundwater.

Utilities:

No utility relocation.

Environmental:

The project is Categorically Exempt under the Class 1 of the California Environmental Quality Act (CEQA) guidelines and a 6004 Categorical Exclusion under National Environmental Policy Act (NEPA). A copy of the environmental document is presented in Attachment C.

**Programming**

PROJECT CAPITAL COST		
Fiscal Year	Right of Way Capital	Construction Capital
FY2012	\$430,000	

Key assumptions for the cost estimate:

The estimated cost assumes that the remedial system to be installed will utilize air sparging and soil vapor extraction treatment technology.

Support Category	Fiscal Year			Total
	11/12	12/13	13/14	
PS&E	\$88,827	\$66,418	\$62,849	\$218,094
Right of Way Support	\$808	\$1,028	\$972	\$2,808
Construction Support	\$0	\$0	\$0	\$0
Total	\$89,635	\$67,446	\$63,821	\$220,902

Note: Support costs escalated 3.10%. Escalation begins at start FY 12/13.

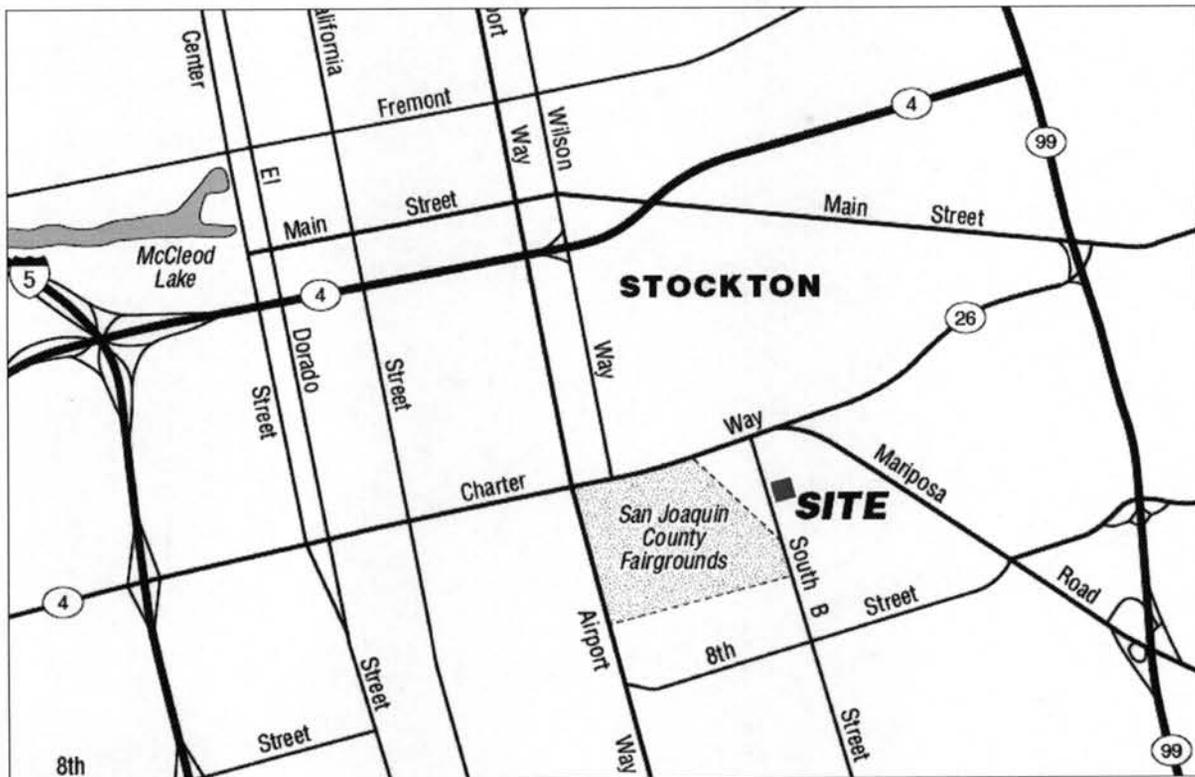
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**Schedule:**

<b>HQ Milestones</b>	<b>Delivery Date (Month, Day, Year)</b>
PA & ED	9/12/2011
End Project	9/14/2014

**Attachments:**

- A. Vicinity Map
- B. Cost Estimate
- C. Environmental Document



**ATTACHMENT A**

Caltrans Stockton Yard Maintenance Station  
Cost Estimate

Task 1: Pre-Field Activities				Estimated
	Quantity	Unit	Unit Price	Cost
System Design	1	ls	\$ 52,000	\$ 52,000
Utility Clearance	1	ls	\$ 1,200	\$ 1,200
Pre-Field Activities	1	ls	\$ 3,500	\$ 3,500
Subtotal Task 1				\$ 56,700

Task 2: Well Installation				Estimated
	Quantity	Unit	Unit Price	Cost
Well Permits	1	ls	\$ 2,500	\$ 2,500
Work Plan	1	ls	\$ 6,000	\$ 6,000
Well Installation	1	ls	\$ 20,000	\$ 20,000
Field Oversight	1	ls	\$ 3,500	\$ 5,000
Waste Disposal	1	ls	\$ 5,000	\$ 5,000
Subtotal Task 2				\$ 38,500

Task 3: AS/SVE System Installation				Estimated
	Quantity	Unit	Unit Price	Cost
Blower	1	ls	\$ 25,000	\$ 25,000
Compressor	1	ls	\$ 30,000	\$ 30,000
Catalytic oxidizer	1	ls	\$ 18,000	\$ 18,000
Knock out drum	1	ls	\$ 10,000	\$ 10,000
GAC	1	ls	\$ 5,000	\$ 5,000
Below Ground Piping Installation	310	lf	\$ 200	\$ 62,000
Power Drop/Addition	1	ls	\$ 20,000	\$ 20,000
System Controls	1	ls	\$ 20,000	\$ 20,000
Startup and Testing	1	ls	\$ 25,000	\$ 25,000
Reporting	1	ls	\$ 10,000	\$ 10,000
Concrete Pad	1	ls	\$ 3,000	\$ 3,000
Enclosure	1	ls	\$ 7,500	\$ 7,500
Subtotal Task 3				\$ 235,500

<b>Sum of Subtotal</b>	<b>\$ 330,700</b>
Minor Items 10%	\$ 33,070.0
Contingency 15%	\$ 49,605.0
Mobilization 5%	\$ 16,535.00
<b>Total Project Cost</b>	<b>\$ 429,910</b>

**ATTACHMENT B**

**CATEGORICAL EXEMPTION/ CATEGORICAL EXCLUSION DETERMINATION FORM**

**10-Stockton Yard  
Maintenance Station**

**10-0N830**

**1000000171**

Dist.-Co.-Rte. (or Local Agency)

P./M.P.M.

E.A. (State project)

Federal-Aid Project No. (Local project)/ Proj. No.

**PROJECT DESCRIPTION:**

(Briefly describe project, purpose, location, limits, right-of-way requirements, and activities involved.)

*Enter project description in this box. Use Continuation Sheet, if necessary*

The project is to construct a remediation system at the Stockton Yard Maintenance Station to remediate the existing soil and groundwater contamination entirely on Caltrans property. The installation of the system will include drilling vapor extraction and air sparging wells, subsurface trenching, constructing a remediation equipment enclosure, manifold the vapor extraction and air sparging lines, installing the remediation equipment, establish a power source to run the equipment, and connecting the remediation equipment to the manifolds.

**CEQA COMPLIANCE** (for State Projects only)

Based on an examination of this proposal, supporting information, and the following statements (See 14 CCR 15300 et seq.):

- If this project falls within exempt class 3, 4, 5, 6 or 11, it does not impact an environmental resource of hazardous or critical concern where designated, precisely mapped and officially adopted pursuant to law.
- There will not be a significant cumulative effect by this project and successive projects of the same type in the same place, over time.
- There is not a reasonable possibility that the project will have a significant effect on the environment due to unusual circumstances.
- This project does not damage a scenic resource within an officially designated state scenic highway.
- This project is not located on a site included on any list compiled pursuant to Govt. Code § 65962.5 ("Cortese List").
- This project does not cause a substantial adverse change in the significance of a historical resource.

**CALTRANS CEQA DETERMINATION** (Check one)

Exempt by Statute. (PRC 21080[b]; 14 CCR 15260 et seq.)

Based on an examination of this proposal, supporting information, and the above statements, the project is:

Categorically Exempt. Class \_\_\_\_\_. (PRC 21084; 14 CCR 15300 et seq.)

Categorically Exempt. General Rule exemption. [This project does not fall within an exempt class, but it can be seen with certainty that there is no possibility that the activity may have a significant effect on the environment (CCR 15061[b][3]).]

Juergen Vespermann

Print Name: Environmental Branch Chief

Signature

9-7-11  
Date

Joy Pinne

Print Name: Project Manager/DLA Engineer

Signature

9/7/11  
Date

**NEPA COMPLIANCE**

In accordance with 23 CFR 771.117, and based on an examination of this proposal and supporting information, the State has determined that this project:

- does not individually or cumulatively have a significant impact on the environment as defined by NEPA and is excluded from the requirements to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS), and
- has considered unusual circumstances pursuant to 23 CFR 771.117(b)  
(<http://www.fhwa.dot.gov/hep/23cfr771.htm> - sec.771.117).

In non-attainment or maintenance areas for Federal air quality standards, the project is either exempt from all conformity requirements or conformity analysis has been completed pursuant to 42 USC 7506(c) and 40 CFR 93.

**CALTRANS NEPA DETERMINATION** (Check one)

Section 6004: The State has been assigned, and hereby certifies that it has carried out, the responsibility to make this determination pursuant to Chapter 3 of Title 23, United States Code, Section 326 and a Memorandum of Understanding (MOU) dated June 7, 2010, executed between the FHWA and the State. The State has determined that the project is a Categorical Exclusion under:

23 CFR 771.117(c): activity (c) ( )

23 CFR 771.117(d): activity (d) ( )

Activity \_\_\_\_ listed in the MOU between FHWA and the State

Section 6005: Based on an examination of this proposal and supporting information, the State has determined that the project is a CE under Section 6005 of 23 U.S.C. 327.

Juergen Vespermann

Print Name: Environmental Branch Chief

Signature

9-7-11  
Date

Joy Pinne

Print Name: Project Manager/DLA Engineer

Signature

9/7/11  
Date

Briefly list environmental commitments on continuation sheet. Reference additional information, as appropriate (e.g., air quality studies, documentation of conformity exemption, FHWA conformity determination if Section 6005 project; §106 commitments; §4(f); §7 results; Wetlands Finding; Floodplain Finding; additional studies; and design conditions). Revised June 7, 2010

## Categorical Exclusion Checklist

Dist/Co/Rte/PM: <b>DIO STOCKTON YARD</b> MTC STATION	Fed. Aid No:	Project ID: <b>1000600171</b>
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**SECTION 1: TYPE OF CE:** Use the information in this section to determine the applicable CE and corresponding activity for this project.

1. Project is a CE under SAFETEA-LU Section 6004 (23 U.S.C. 326).  Yes  No  
 If "yes", check applicable activity in one of the three tables below (activity must be listed in 23 CFR 771.117 (c) or (d) list or included in activities listed in Appendix A of the MOU to be eligible for Section 6004).

Activity Listed in 23 CFR 771.117(c)			
1 <input type="checkbox"/>	Activities which do not involve or lead directly to construction	12 <input type="checkbox"/>	Improvements to existing rest areas and truck weigh stations.
2 <input type="checkbox"/>	Utility installations along or across a transportation facility	13 <input type="checkbox"/>	Ridesharing activities
3 <input type="checkbox"/>	Bicycle and pedestrian lanes, paths, and facilities	14 <input type="checkbox"/>	Bus and rail car rehabilitation
4 <input type="checkbox"/>	Activities included in the State's <i>highway safety plan</i> under <u>23 U.S.C. 402</u>	15 <input type="checkbox"/>	Alterations to facilities or vehicles in order to make them accessible for elderly and handicapped persons
5 <input type="checkbox"/>	Transfer of Federal lands pursuant to 23 U.S.C. 107(d) and/or 23 U.S.C. 317 when the land transfer is in support of an action that is not otherwise subject to FHWA review under NEPA	16 <input type="checkbox"/>	Program administration, technical assistance activities, and operating assistance to transit authorities to continue existing service or increase service to meet routine changes in demand
6 <input type="checkbox"/>	Installation of noise barriers or alterations to existing publicly owned buildings to provide for noise reduction	17 <input type="checkbox"/>	Purchase of vehicles by the applicant where the use of these vehicles can be accommodated by existing facilities or by new facilities which themselves are within a CE
7 <input type="checkbox"/>	Landscaping	18 <input type="checkbox"/>	Track and rail bed maintenance and improvements when carried out within the existing right-of-way
8 <input type="checkbox"/>	Installation of fencing, signs, pavement markings, small passenger shelters, traffic signals, and railroad warning devices where no substantial land acquisition or traffic disruption will occur	19 <input type="checkbox"/>	Purchase and installation of operating or maintenance equipment to be located within the transit facility and with no significant impacts off the site
9 <input type="checkbox"/>	Emergency repairs under <u>23 U.S.C. 125</u>	20 <input type="checkbox"/>	Promulgation of rules, regulations, and directives
10 <input type="checkbox"/>	Acquisition of scenic easements	21 <input type="checkbox"/>	Deployment of electronics, photonics, communications, or information processing used singly or in combination, or as components of a fully integrated system, to improve the efficiency or safety of a surface transportation system or to enhance security or passenger convenience. Examples include, but are not limited to, traffic control and detector devices, lane management systems, electronic payment equipment, automatic vehicle locaters, automated passenger counters, computer-aided dispatching systems, radio communications systems, dynamic message signs, and security equipment including surveillance and detection cameras on roadways and in transit facilities and on buses
11 <input type="checkbox"/>	Determination of payback under <u>23 CFR part 480</u> for property previously acquired with Federal-aid participation		

March 2011

# ATTACHMENT C

### Categorical Exclusion Checklist (continued)

Activity Listed in Examples in 23 CFR 771.117(d)			
1 <input type="checkbox"/>	Modernization of a highway by resurfacing, restoration, rehabilitation, reconstruction, adding shoulders, or adding auxiliary lanes (e.g., parking, weaving, turning, climbing)	8 <input type="checkbox"/>	Construction of new bus storage and maintenance facilities in areas used predominantly for industrial or transportation purposes, not inconsistent with existing zoning and located on or near a street with adequate capacity to handle anticipated bus and support vehicle traffic
2 <input type="checkbox"/>	Highway safety or traffic operations improvement projects including the installation of ramp metering control devices and lighting	9 <input type="checkbox"/>	Rehabilitation or reconstruction of existing rail and bus buildings and ancillary facilities where only minor amounts of additional land are required and there is not a substantial increase in the number of users
3 <input type="checkbox"/>	Bridge rehabilitation, reconstruction or replacement or the construction of grade separation to replace existing at-grade railroad crossings	10 <input type="checkbox"/>	Construction of bus transfer facilities when located in a commercial area or other high activity center in which there is adequate street capacity for projected bus traffic
4 <input type="checkbox"/>	Transportation corridor fringe parking facilities	11 <input type="checkbox"/>	Construction of rail storage and maintenance facilities in areas used predominantly for industrial or transportation purposes where such construction is not inconsistent with existing zoning and where there is no significant noise impact on the surrounding community
5 <input type="checkbox"/>	Construction of new truck weigh stations or rest areas	12 <input type="checkbox"/>	<p>Acquisition of land for hardship or protective purposes. Hardship and protective buying will be permitted only for a particular parcel or a limited number of parcels. These types of land acquisition qualify for a CE only where the acquisition will not limit the evaluation of alternatives, including shifts in alignment for planned construction projects, which may be required in the NEPA process. No project development on such land may proceed until the NEPA process has been completed</p> <p>(i) Hardship acquisition is early acquisition of property by the applicant at the property owner's request to alleviate particular hardship to the owner, in contrast to others, because of an inability to sell his property. This is justified when the property owner can document on the basis of health, safety or financial reasons that remaining in the property poses an undue hardship compared to others</p> <p>(ii) Protective acquisition is done to prevent imminent development of a parcel which may be needed for a proposed transportation corridor or site. Documentation must clearly demonstrate that development of the land would preclude future transportation use and that such development is imminent. Advance acquisition is not permitted for the sole purpose of reducing the cost of property for a proposed project</p>
6 <input type="checkbox"/>	Approvals for disposal of excess right-of-way or for joint or limited use of right-of-way, where the proposed use does not have significant adverse impacts	13 <input type="checkbox"/>	Acquisition of pre-existing railroad right-of-way pursuant to 49 U.S.C. 5324(c). No project development on the acquired railroad right-of-way may proceed until the NEPA process for such project development, including the consideration of alternatives, has been completed
7 <input type="checkbox"/>	Approvals for changes in access control		

Activity Listed in Appendix A of the MOU for State Assumption of Responsibilities for Categorical Exclusions			
1 <input type="checkbox"/>	Construction, modification, or repair of storm water treatment devices, protection measures such as slope stabilization, and other erosion control measures	5 <input type="checkbox"/>	Routine seismic retrofit of facilities to meet current seismic standards and public health and safety standards without expansion of capacity
2 <input type="checkbox"/>	Replacement, modification, or repair of culverts or other drainage facilities	6 <input type="checkbox"/>	Air space leases that are subject to Subpart D, Part 710, Title 23, Code of Federal Regulations
3 <input type="checkbox"/>	Projects undertaken to assure the creation, maintenance, restoration, enhancement, or protection of habitat for fish, plants, or wildlife	7 <input type="checkbox"/>	Drilling of test bores/soil sampling to provide information for preliminary design and for environmental analyses and permitting purposes
4 <input type="checkbox"/>	Routine repair of facilities due to storm damage, including permanent repair to return the facility to operational condition that meets current standards of design and public health and safety without expanding capacity (e.g., slide repairs, construction or repair of retaining walls)		

## Categorical Exclusion Checklist (continued)

2. Project is a CE for a highway project under SAFETEA-LU Section 6005 (23 U.S.C. 327).  Yes  No  
(Use only if project does not qualify under Section 6004 [activities not included in three previous lists above].)

3. Exceptions to Categorical Exclusions/Unusual Circumstances (23 CFR 771.117[b]).

FHWA regulation 23 CFR 771.117(b) provides that any action which normally would be classified as a CE but could involve *unusual circumstances* requires the Department to conduct appropriate environmental studies to determine if the CE classification is proper. Unusual circumstances include actions that involve:

- Significant environmental impacts;
- Substantial controversy on environmental grounds;
- Significant impact on properties protected by section 4(f) of the DOT Act or section 106 of the National Historic Preservation Act; or
- Inconsistencies with any Federal, State, or local law, requirement or administrative determination relating to the environmental aspects of the action

All of the above unusual circumstances have been considered in conjunction with this project.

- Checking this box certifies that none of the above conditions apply and that the Categorical Exclusion remains valid.  
 Checking this box certifies that unusual circumstances are involved, however, the appropriate studies/analysis have been completed and it has been determined that the CE classification is still appropriate.

### **SECTION 2: Compliance with FHWA NEPA policy to complete all other applicable environmental requirements<sup>1</sup> prior to making the NEPA determination:**

1. During the environmental review process for which this CE was prepared, all applicable environmental requirements were evaluated. Outcomes for the following requirements are identified below and fully documented in the project file.

#### **Air Quality**

- AQ checklist has been completed and project meets all applicable AQ requirements.

#### **Cultural Resources**

- Section 106 compliance is complete  
Finding:  Screened Undertaking  No Effect  No Adverse Effect  Adverse Effect/MOA

#### **Noise**

23 CFR 772

- Check box if project is a Type 1 project; if not, skip this section.  
 Future noise levels with project either approach or exceed NAC or result in a substantial increase  
If yes,  Abatement is reasonable and feasible  Abatement is not reasonable or feasible

#### **Waters, Wetlands, Floodplains**

- Water Quality; Section 404 of the Clean Water Act  
Impacts to Waters of the US:  Yes  No  
If yes, approval anticipated:  
 Nationwide Permit  Individual Permit  Regional General Permit  Letter of Permission
- Section 401 of the Clean Water Act  
 Exemption  Certification
- Wetland Protection (Executive Order #11990)  
 No wetland impact  Only Practicable Alternative Finding is included in the CE attachment  
 Only Practicable Alternative Finding is included in a separate document in the project file
- Floodplains (Executive Order #11988)  
 No Floodplain Encroachment  No Significant Encroachment  Significant Encroachment

<sup>1</sup> Please consult the SER for a complete list of applicable laws, statutes, regulations, and executive orders that must be considered before completing the CE.

## Categorical Exclusion Checklist (continued)

### Biology

- Section 7 (Federal Endangered Species Act) Consultation Findings (Effect determination)
  - No Effect  Not Likely to Adversely Affect  Likely to Adversely Affect
- Essential Fish Habitat (Magnuson-Stevens Act) Findings (Effect determination):
  - No Effect  Adverse Effect  No Adverse Effect

### Section 4(f) Transportation Act (23 CFR 774)

- Section 4(f) regulation was considered as a part of the review for this project and a determination was made:
    - Section 4(f) does not apply  
(Project file includes documentation that property is not a Section 4(f) property, that project does not use a Section 4(f) property, or that the project meets the criteria for temporary occupancy.)
    - Section 4(f) applies
      - De Minimis
      - Programmatic: Type \_\_\_\_\_ (List one of the five appropriate categories as defined in 23 CFR 774.3)
      - Individual:  Legal Sufficiency Review complete  HQ Coordinator Review Complete
- Section 6(f)—Was the above property purchased with grant funds from the Land and Water Conservation Fund?
- No, Section 6(f) does not apply. No additional documentation required.
  - Yes  Documentation of approval from National Park Service Director (through California State Parks) has been received for the conversion/and replacement of 6(f) property.

### Coastal Zone

Coastal Zone Management Act of 1972

- Not in Coastal Zone  Qualifies for Exemptions  Qualifies for Waiver  Coastal Permit Required
- Consistent with Federal State and Local Coastal Plans  Federal Consistency Determination

### Relocation

- No Relocations
- Project involves \_\_\_\_\_ (#) relocations and will follow the provisions of the Uniform Relocation Act.

### Hazardous Waste and Materials

- None
- Contamination is present. Nature and extent of contamination  is fully known.  is not fully known.  
If not fully known, briefly discuss plan for securing information:  
Petroleum hydrocarbon contamination exists in the soil and groundwater due to a release from the underground fuel storage tanks. The project will construct a remediation system to remove the contamination

## SECTION 3: Certification

Based on the information obtained during environmental review process and included in this checklist, the project is determined to be a Categorical Exclusion pursuant to the National Environmental Policy Act and is in compliance with all other applicable environmental laws, regulations and Executive Orders.

Prepared by: TERRENCE A. FOX

Title: ENGINEERING GEOLOGIST

Signature: Terrence A. Fox

Date: 9-7-11