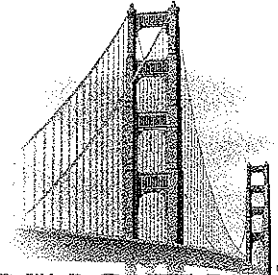


# **Appendix E**

## **Letters and Correspondence**



May 9, 2008



**GOLDEN GATE BRIDGE**  
HIGHWAY & TRANSPORTATION DISTRICT

Mr. Greg McConnell, District Branch Chief,  
Environmental Analysis  
CALTRANS, Office of Environmental Analysis  
Mail Station 8-B  
P.O. Box 23660  
Oakland, CA 94623-0660

Environmental Studies and  
Preliminary Design for a Physical  
Suicide Deterrent System on the  
Golden Gate Bridge  
Contract No. 2006-B-17

Re: **Project PES Form – Environmental Checklist Exhibit items #6A13 and #6C  
Hazardous Material Study**

Mr. McConnell:

This letter is to confirm that there is no potential for hazardous materials (including underground tanks) or hazardous material remains within or immediately adjacent to the construction area and that a hazardous material technical study is not required for the Golden Gate Bridge, Highway and Transportation District's (District) Physical Suicide Deterrent System Project (Project).

The proposed build alternatives for the Project will either add onto the Golden Gate Bridge (Bridge) outside handrail, replace the outside handrail or add a net system to the outside of the Bridge below the outside handrail. There will be no excavation or construction activities on the lands below or around the Bridge. The proposed staging areas are all located on lands that have been previously disturbed and are covered with either asphalt concrete or gravel. Excavation will not occur in the staging areas and the surfaces of the staging areas do not contain hazardous materials.

The build alternatives will all require attachments to the Bridge. The existing steel on the Bridge is painted with paint systems consisting of red iron oxides, lead and zinc compounds, and/or barium sulfates. Any work that disturbs the existing paint system could potentially expose workers to health hazards and will produce surface preparation debris containing heavy metal in amounts that exceed the hazardous thresholds established in the California Code of Regulations. This information will be included in the Project specifications and the construction contractor will be required to contain, collect, handle and dispose at an appropriately licensed disposal facility all removed material painted with the existing paint system and all debris produced as a result of the work, in accordance with all applicable federal, state and local hazardous waste laws. All of the District's contract specifications for projects which disturb the existing paint system include provisions informing the contractor of the existing paint systems and require that the contractor follow all applicable laws to ensure that the health of all employees and the public as well as the environment are protected during the work.

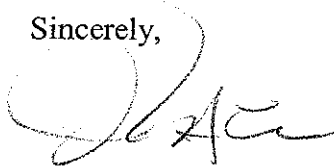
Mr. McConnell, Caltrans  
May 9, 2008  
Page 2 of 2

The District takes the protection of the public and environment very seriously. In addition to the construction contract requirements, the District monitors its contractor's work and performs quality assurance testing of its contractor's quality control tests to ensure that the work is performed in compliance with all applicable safety and environmental laws.

Attached for your reference is a section from a recent District project which includes provisions for the handling and disposal of hazardous materials. A project specific specification will be developed and included in the construction contract should this project move forward with any of the build alternatives. We trust that this information resolves your question regarding hazardous materials on this Project.

Should you have further questions, I can be reached at (415) 923-2023.

Sincerely,



Jeffrey Y. Lee, P.E.  
Project Manager

Attachment

JYL/crh

c: Ms. Sylvia Fong, Caltrans  
Steve Morton, DMJM Harris  
Phyllis Potter, Circle Point  
DJMulligan/EZBauer/JREberle/2.18

H:\ENGINE\RESOURCE\SuicideDeterrentSystem\Agencies\CALTRANS\McConnellHazMat.doc

**SP7-1.04 PERMITS, LICENSES AND OTHER REGULATORY REQUIREMENTS.** The following is added to Section 7-1.04, "Permits and Licenses," of the Standard Specifications after the last paragraph of said section:

The following agencies have oversight responsibilities with respect to this project, and the District has obtained permits and other authorizations from the following agencies:

- a. California Department of Transportation (Encroachment Permit Number: 0499-NTK-2175);
- b. Golden Gate National Recreation Area (Special Use Permit Number: PWFO-GOGA-5300-96-PSF-7043, Modification 1);
- c. The San Francisco Bay Conservation and Development Commission (Consistency Determination) as amended;
- d. State Water Resources Control Board (General Permit Number: CAS000002; and Conditional Water Quality Certification and Waiver of Waste Discharge;
- e. Presidio Trust Lease; and
- f. U.S. Fish and Wildlife Service, Biological Opinion, dated August 8, 1995 and amended April 2, 1996 and December 19, 2001.

The requirements contained in the agencies' permits and other authorizations are hereby incorporated by reference as though set forth in full. Copies of the permits and other authorizations are included within Volume 2 of these Special Provisions. Specific documents referenced in said permits and authorizations are available for the Contractor's inspection at the District's offices.

Throughout the term of this Contract, and until the date of the District's acceptance of the Contract, Contractor shall comply with the provisions of the above permits and other authorizations as they pertain to Contractor's work. Certain of the permits and authorizations included in Volume 2 indicate a specific date for expiration. It is the District's intent to obtain an extension of said permits and authorizations to allow for the full and final completion of Contractor's work in accordance with the duration of time set forth in this Contract for completion. Accordingly, Contractor shall assume and plan for the extension of said permits / authorizations such that they will apply with similar terms for the entire duration of Contractor's work, and it is expressly understood and agreed that Contractor shall have no claim against the District for additional compensation and/or time based on the expiration dates indicated in said permits / authorizations.

Contractor's attention is directed to the Presidio Trust Lease. With regard to the staging area made available at the south end of the bridge structure, Contractor's use of this area is conditioned upon Contractor understanding and agreeing that the use of this area may be terminated by the Presidio Trust during the course of the Project. The use of this area may be terminated upon 60 days notice by the Presidio Trust during the course of the Project. Should the use of this area be terminated during the course of the Project, Contractor agrees to promptly vacate the south staging area at its own cost and expense. In such event, the District will not be arranging for any substitute staging area for Contractor's use. Contractor's use of the south staging area is at Contractor's risk.

Prior to the start of any work within the State of California's right-of-way, or any work that affects the State's facilities, the Contractor will be required to obtain an Encroachment Permit from the following office:

CALTRANS DISTRICT 4  
 PERMIT ENGINEER  
 111 GRAND AVENUE  
 OAKLAND, CALIFORNIA  
 P.O. BOX 23660, OAKLAND, CA 94623-0660

Application fees and site inspection costs that are due at the time of obtaining the permit shall be paid by the Contractor. The State has issued an exemplar copy of the Encroachment Permit to the District. This copy is included in Volume 2 of these Special Provisions.

With respect to the Golden Gate National Recreation Area ("GGNRA"), the National Park Service ("NPS") has issued a Special Use Permit No. PWFO-GOGA-5300-96-PSF-7043, Modification 1 to the District that authorizes certain construction activities within lands owned and managed by the NPS. IN COMPLIANCE WITH THIS PERMIT, AND AS LISTED IN SECTION IV (2), "SITE DISTURBANCE PREREQUISITES," OF THE PERMIT, THE CONTRACTOR SHALL SUBMIT FOR THE ENGINEER'S REVIEW AND APPROVAL THE FOLLOWING SUBMITTALS WITHIN THIRTY (30) DAYS OF THE EFFECTIVE DATE OF THE NOTICE TO PROCEED:

1. Water Pollution Control Program including a Storm Water Pollution Prevention Plan;
2. Site Specific Health and Safety Plan (injury and illness prevention program);
3. Traffic Management Plan (including local haul roads, transit and parking plan, and pedestrian and bicycle trails); and,
4. Noise Mitigation Plan.

In addition, within thirty (30) days of the effective date of the Notice to Proceed, the Contractor shall submit for the Engineer's review and approval a Site Operations and Materials Handling Plan ("SOMHP").

All of the above Plans must address and fully respond to the requirements of the existing NPS Special Use Permit with respect to all work to be performed within this geographic area.

The Engineer's approval of the above five submittals is contingent upon the NPS' approval of the same submittals. The Engineer will supply the Contractor's submittals to the NPS upon receipt by the Engineer. For the above listed five submittals, Contractor shall allow at least forty five (45) days for the Engineer's review of each listed submittal. In the event of any re-submittal, Engineer shall have the same amount of time to review the re-submittal as the Engineer had for the original submittal. It is expressly understood and agreed that any delay to the construction schedule due to any re-submittals shall be Contractor's responsibility and shall be at its own cost and expense.

CONTRACTOR SHALL NOT DISTURB THE SITE UNTIL ENGINEER APPROVES EACH OF THE ABOVE LISTED SUBMITTALS. As provided in Section II, "General Conditions," of

the Special Use Permit, the term "site disturbance" means any activity that involves or results in the placement of any structure or equipment on the Permitted Premises or Approved Transportation Routes (which are defined in the permit) including without limitation, fences or trailers, for more than 24 consecutive hours, and any activity, including but not limited to construction, that involves or results in any disturbance or alteration of the ground or any building or landscape feature within the Permitted Premises or Approved Transportation Routes.

Until the submittals specified in this Section SP7-1.04 are approved by the Engineer, the Contractor shall not begin any activities at the project site, except for taking field measurements and verification and horizontal and vertical topographic and control surveying as specified in "Plans and Working Drawings (Submittals)," "Horizontal and Vertical Control Surveying" and "Field Measurements" of these Special Provisions.

Attention is directed to "Order of Work," "Earthwork" and "Non-Soil Surface Abatement" of these Special Provisions. The Contractor shall, as a first order of work once site disturbance is allowed, remove contaminated soil materials and abate contamination on non-soil surfaces within the areas indicated on the Contract Plans and specified in these Special Provisions prior to commencement of any other site disturbance.

The Contractor must conduct all work activities on or off the site (including, for example, the transport of any wastes or materials) in full compliance with, at a minimum, applicable Environmental Laws (as defined below) and applicable additional health and safety rules and regulations pertaining to hazardous substances and hazardous materials (collectively referred to as "Applicable Environmental Requirements"). Contractor must insure that all temporary hazardous waste storage facilities comply with these Special Provisions and requirements of the U.S. Environmental Protection Agency ("EPA") and the State of California hazardous waste regulations.

As used in these Special Provisions, all references to "hazardous substances" or "hazardous materials" are to be treated as synonymous, and shall mean any chemical, compound, waste, substance, mixture, pollutant or other material (i) that has been defined as, or deemed to be, hazardous or toxic to human health or reproduction, or hazardous to the environment; or (ii) that is regulated due to its status as a compound or substance that is toxic, ignitable, reactive, carcinogenic, corrosive or otherwise potentially injurious to human health or the environment; or (iii) that is regulated, defined, or otherwise classified as hazardous or toxic by any federal, state, or local law, regulation, ordinance, judicial or administrative orders or decrees enforceable as a matter of law, as these may be amended from time to time (collectively "Environmental Laws"). Environmental Laws include, without limitation, the following: the Comprehensive Environmental Response, Compensation and Liability Act, 42 United States Code (U.S.C.) Section 9601, et seq. ("CERCLA"); the Hazardous Materials Transportation Act, 49 U.S.C. Section 1801, et seq.; the Resource Conservation and Recovery Act, 42 U.S.C. Section 6901 et seq. ("RCRA"); the Toxic Substances Control Act, 15 U.S.C. Sections 2601 et seq.; the Clean Water Act, 33 U.S.C. Sections 1251 et seq.; the California Hazardous Waste Control Act, Health and Safety Code Sections 25100 et seq.; the California Hazardous Substance Account Act, Health and Safety Code Sections 25330 et seq.; the California Safe Drinking Water and Toxic Enforcement Act; Health and Safety Code Sections 25249.5 et seq.; Health and Safety Code Sections 25280 et seq. (Underground Storage of Hazardous Substances); the California Hazardous Waste Management Act, Health and Safety Code Sections 25170.1 et seq.; California Health and Safety Code Sections 25501 et seq. (Hazardous Materials Response Plans and Inventory); and the California Porter-Cologne Water Quality Control Act, Water Code Sections 13000 et seq.

References to "contaminated" or "contamination" in any of these Special Provisions means anything that contains hazardous substances at levels imposing regulatory controls under Environmental Laws. All references to "waste" means any "waste" as defined or regulated as such under Environmental Laws. Any reference to "waste" includes any waste that is a hazardous substance or hazardous waste under Environmental Laws.

Attention is directed to "Removal of Lead and Other Hazardous Substances" elsewhere in these Special Provisions. Contractor shall comply with all Applicable Environmental Requirements and soils management or similar plans in effect for the site. Without limiting the foregoing, and in accordance with the Hazard Communication Standard (Title 8, General Industry Safety Orders of the California Code of Regulations, Section 5194), the Contractor shall inform the Engineer of all hazardous materials brought onto the site in connection with the performance of the work, including all hazardous materials from vendors, suppliers and subcontractors. Contractor shall provide the Material Safety Data Sheets ("MSDS") for all such hazardous materials on or before the date they are first brought to the site. MSDS forms may be supplemented with product sheets where available. The Contractor shall also specify the estimated quantities, storage and use locations of these hazardous materials, the location of the MSDS forms, as well as information regarding the means for District employees to have immediate access to the MSDS forms during times when they might be exposed to such materials.

Contractor shall immediately notify the Engineer at any time an authorized representative from a regulatory agency contacts the Contractor regarding the Project or visits the site. The Engineer may monitor or participate in such visits. Copies of any and all correspondence with such representatives, including letters, orders and citations, shall be provided to the Engineer within twenty-four hours of Contractor's receipt of said documents, and at least concurrently with Contractor's communication with the Engineer. Contractor shall promptly provide the Engineer with a complete description of any corrective actions required and/or undertaken in response to a visit or inspection by an authorized representative of a regulatory agency.

The Contractor shall be responsible for originating copies of the waste shipment records/manifests required by the Federal Resource Conservation and Recovery Act (PL 94-580), the State of California, and any other state where Contractor plans to dispose waste materials from the site. These records/manifests shall be maintained for all hazardous and non-hazardous materials that are shipped off the site. Attention is directed to "Removal of Lead and Other Hazardous Substances," elsewhere in these Special Provisions, concerning the party that is responsible for signing the manifests. All notices that the Contractor receives for any such shipments under these manifests, whether during or after the completion of the scope of work, must be forwarded to Engineer within two (2) business days of receipt.

The Contractor shall ensure that all operations for loading and hauling all wastes (i.e., placarding, labeling and packaging of contaminated wastes) are in compliance with the appropriate local, state, and Federal DOT regulations.

The Contractor shall be responsible for ensuring that all transporters, storage facilities, and treatment or disposal facilities that handle any wastes or hazardous substances generated at this site are appropriately permitted, licensed, and approved by applicable regulatory agencies to accept such wastes prior to the shipment of such materials to such sites.

**SITE OPERATIONS AND MATERIALS HANDLING PLAN.** Within 30 days of the effective date of the Notice to Proceed, the Contractor shall prepare and submit to the Engineer for approval in accordance with "Plans and Working Drawings (Submittals)" elsewhere in these



Special Provisions, a Site Operations and Materials Handling Plan (SOMHP) that covers all work activities involving the disturbance and handling of hazardous materials, including excavation of contaminated soil material and fractured rock, abatement of contamination on non-soil surfaces and all operations disturbing existing paint systems. The SOMHP shall include:

- Descriptions of the methods and sequences of such work activities and specifications of equipment to be used.
- Containment System(s) and Collection Plan(s).
- Work Area Monitoring Plan(s).
- Contaminated Materials Handling, Storage and Management Plan(s) (CMHSMP).
- Characterization Sampling and Analysis Plan(s) (CSAP).
- Waste Transportation and Disposal Plan(s) (WTDP).

The SOMHP shall be prepared under the direction and signed by the Contractor's industrial hygienist who is certified by the American Board of Industrial Hygiene. Attention is directed to "Industrial Hygiene Requirements" contained within "Safety and Health Provisions" elsewhere in these Special Provisions.

**CONTAINMENT SYSTEM AND COLLECTION PLAN.** The Contractor's SOMPH shall include a Containment System and Collection Plan (CSCP). The CSCP shall describe the Contractor's proposed containment systems, ventilation systems associated with the containment systems, and material collection methods proposed for use inside the containment systems. The collection methods proposed shall prevent the disbursement of material and airborne emissions outside the containment system.

At all locations where abrasive blasting or mechanical methods are used to remove lead-based paint from steel and other surfaces, and at locations where abrasive blasting or mechanical methods are used to abate non-soil surfaces, a closed containment system with a negative air ventilation system shall be utilized. The closed system shall be designed and installed to contain the air borne materials and prevent the disbursement of the airborne emissions outside the containment systems.

At all other locations where the work activities will produce air borne emissions containing lead or other hazardous materials, or cause the disbursement of dust and other materials that may be contaminated, the Contractor's CSCP shall include provisions for containment systems and collection plans that will prevent the disbursement of contaminated materials and airborne emissions outside the work areas.

The closed containment systems shall utilize both equipment and barriers, such as vacuums, vacuum shrouded surface preparation equipment, drapes, tarps, fans and filters, and other materials and equipment that will contain within the closed containment system all contaminated material and any other material generated during the Contractor's Work. In developing the closed containment systems and collection plan for such material, the Contractor shall provide closed containments conforming to Class 1A as specified in Section 4.2.2.1 Guide of the Steel Structures Painting Council (SSPC) Steel Structures Painting Manual. The containment methods chosen by the Contractor shall be suitable for containing all airborne emission, paint debris and any other contaminated material, and shall meet all Applicable Environmental Requirements, including portions of 29 CFR 1910, 29 CFR 1926 and Title 8 of California Code of Regulations.

At work locations where closed containment systems and negative air are not required, the Contractor shall develop and implement containment systems that will prevent the material and any airborne emission from migrating outside the work area. The systems may consist of closed

systems, systems using drapes tarps and other barriers, vacuum shrouded equipment or combinations of equipment, material and methods such that all contaminated material and any other materials disturbed or generated during the work activities are contained inside the work area. Barriers, washing areas, and other such devices shall be installed to prevent contaminated material from leaving the containment areas in violation of the Applicable Environmental Requirements.

The Containment System and Collection Plan, for each work area, shall include (i) working drawings and design and independent check design calculations prepared under the direction and signed by an engineer who is registered as a Civil Engineer in the State of California for all connections of the containment systems to the existing structure; and (ii) working drawings and design and independent check design calculations prepared under the direction and signed by an engineer who is registered as a Mechanical Engineer in the State of California for an enclosed containment ventilation system. Each proposed system shall be stable and able to withstand all loads imposed upon it and shall not in any way damage or impair the structural integrity of the existing structure. The ventilation systems for the closed containment system shall provide for the movement of air across the work area, produce a negative air pressure inside the containment and provide a dust collector system that is adequate to sufficiently clean the discharged air.

Contractor must demonstrate to the Engineer that the containment systems are performing systems are performing satisfactorily, based, at a minimum, on the following monitoring tests:

- Contractor's worker protection (personal sampling) monitoring tests, as required by Section 1532.1, "Lead," and Section 1532, "Cadmium," of Construction Safety Orders Title 8, of the California Code of Regulations and as specified in subsection "Safety and Health Provisions" elsewhere in these Special Provisions.
- Contractor's work area monitoring test, as described below in subsection "Work Area Monitoring" of this Section.
- Soil sampling, visible emissions and ambient air quality assurance monitoring tests, which will be conducted by the Engineer, as described below in subsection "Environmental Monitoring" of this Section.

If the measures being taken by the Contractor are found by the Engineer to be inadequate to provide for the containment and collection of debris that may contain existing paint contamination or any other hazardous materials present at the site, the Engineer has the right to direct the Contractor to revise his operations and the containment system and collection plan at no additional cost to the District. The Engineer may determine the operations for which the Contractor's containment and collection program are inadequate. The Contractor shall not perform further work on these operations until the containment system and collection plan are found adequate by the Engineer and, if required, a revised program for the containment system and collection plan for material containing existing paint system has been approved by the Engineer. A revised Containment System and Collection Plan shall be submitted for approval as an amendment to the SOMHP to the Engineer by the Contractor in accordance with "Plans and Working Drawing (Submittals)" elsewhere in these Special Provisions and in accordance with this Section.

The District will not be liable to the Contractor for failure to approve all or any portion of an originally submitted or revised plan for the containment system and collection plan of material containing contamination, nor for any delays to the work due to the Contractor's failure to submit acceptable plans for the containment and collection of such material.

**WORK AREA MONITORING.** The Contractor's SOMPH shall include the Contractor's plan for performing work area monitoring. The Contractor's Work Area Monitoring Plan shall include, at a minimum, performing work area monitoring by collecting air samples and taking air quality measurements for lead and other hazardous compounds. The monitoring shall be performed adjacent to the outside of containment areas and all other areas or at equipment locations that may potentially emit lead compounds and other contaminants, consistent with Applicable Environmental Requirements. Contractor must use personal monitors in accordance with SSPC GUIDE 6, Section 5.5.3 Method C, or equivalent method approved by the Engineer. Action level lead limits in air are 30 ug/m<sup>3</sup> per 29 CFR 1910.1025 and 29 CFR 1926.62. Work area monitoring shall be performed daily during all earthwork, non-soil surface abatement work activities, all abrasive blasting activities and all other activities that may disturb the existing paint systems. Contractor shall furnish the monitoring results to the Engineer within 72 hours of collection.

The Contractor shall prepare chain-of-custody record forms for all air samples to be tested. Contractor shall submit copies of completed chain-of-custody record forms to the Engineer on the same day the samples are dispatched for testing.

Air sample analysis results for work area monitoring shall be submitted in triplicate to the Engineer. The sample analyses reports shall be prepared by a certified industrial hygienist and include the following information:

- A. For air sample analysis results, the date and location of sample collection, sample number, Contract number, full name of the structure as shown on the Contract Plans, and the name of the Technician and Certified Industrial Hygienist.
- B. Start time, end time and duration of sample collection.
- C. Start time and end times of surface preparation operations on the day of sample collection.
- D. Equipment serial numbers of the sampling equipment.
- E. Concentrations of PM-10 and PM-2.5 expressed as micrograms per standard cubic meter of air.
- F. Concentrations of lead, zinc, cadmium, chromium and silicates expressed as micrograms per standard cubic meter of air.

Should the results of the air monitoring indicate that lead or other hazardous compounds are being release into the environment in violation of the Applicable Environmental Requirements, the Contractor shall stop at the non-compliant area and determine the cause of the release. The Contractor shall submit a revised Containment System and Collection Plan to the Engineer for review and approval detailing how the containment will be revised to prevent future releases.

**CONTAMINATED MATERIALS HANDLING, STORAGE AND MANAGEMENT PLAN.** The Contractor's Contaminated Debris Handling, Storage and Management Plan (CMHSMP) shall describe all methods proposed to handle, store and manage all materials on the site contaminated with lead and all other materials found on the site or produced as a part of the work and deemed to be contaminated or hazardous. The plan shall include the proposed

procedures for handling such materials, the identification of all proposed storage and staging areas of such materials, the proposed access routes to and from the work areas to the storage and staging areas, the methods of on site material storage such as temporary containers or stockpiles, the management of the materials stored on site and all required record keeping of the material, including tracking material by date, location, characterization, weight and volume from the site to the off-site disposal facilities.

Where containers, such as drums and bins, are proposed for use, the CMHSMP shall detail Contractor's proposed methods for coordinating container delivery to the site, methods of filling containers with different materials and location of containers when being filled, methods for delineating temporary staging area for storage of containers while the material is being analyzed for characterization, methods for maintaining temporary storage areas for containers filled with contaminated material, for managing the partially filled and filled containers including appropriate on site labeling, tracking and record keeping, and for tracking, monitoring and reporting the characterized material transported in the containers off-site for disposal.

Where temporary stockpiles are proposed, the CMHSMP shall detail Contractor's proposed methods for moving the material from the work areas to the temporary stockpile areas, for providing dust control and storm water pollution prevention measures at the work areas, stockpile areas and along the routes between the work areas and temporary stockpile areas, for tracking the amount of material removed from each work area and tracking where the material is deposited at the temporary stockpile area, for isolating the stockpiled materials from the existing ground and surrounding work areas and project site, for managing the material while characterization analysis is being performed, for removing these materials for off-site disposal and for all record keeping including weight and volume of the characterized material disposed off-site and the location of the off-site disposal sites.

Attention is directed to Work Area Monitoring in this Section SP7-1.04 regarding the requirement for the Contractor to monitor the work area and provide appropriate measures to prevent the unauthorized release of airborne lead or other hazardous compounds into the environment due to any of the Contractor's operations.

The CMHSMP shall include Contractor's methods for maintaining containers or stockpiles and staging areas in accordance with "Project Appearance" elsewhere in these Special Provisions.

The methods proposed in the CMHSMP for the handling, storage and management of all contaminated and hazardous materials shall be in accordance with all Applicable Environmental Requirements and all applicable worker health and safety provisions.

To the extent allowed by Applicable Environmental Requirements, contaminated and hazardous materials may be temporarily stored on site as noted above pending the testing, analysis and characterization of such materials. Contractor shall maintain on a daily basis accurate records of the number of drums, containers and bins on site at any time, the location of these containers, the characterization of the material inside these containers, the dates and times of delivery and removal of these containers, and an accounting of the weights and volumes of the materials in the containers and the off-site disposal location of the materials. On site storage of material in containers or stockpiles shall be limited to the time allowed by Applicable Environmental Requirements.

Where temporary stockpiles are proposed, the CMHSMP shall include provisions for covering the stockpiles at all times except when work adding material to or removing material from the

stockpiling is in progress. The stockpiles must be covered at the end of each day. The CMHSMP shall provide for dust control in the stockpile areas and shall provide for the installation and maintenance of other measures as necessary to prevent storm water pollution by the stockpiled contaminated materials. The CMHSMP shall include the installation of temporary barriers (Type K), the construction and maintenance of temporary containment berms or other applicable controls as required by Applicable Environmental Requirements and these Specifications to positively delineate the temporary stockpile areas and to control the spillage and/or migration of contaminated materials.

The CMHSMP shall provide for verification testing by the Contractor of the surface of the storage and staging areas to ensure that the Contractor's operations do not contaminate the areas above their pre-construction conditions. The CMHSMP shall provide for testing both prior to the Contractor's use and after final cleanup of the staging areas. If the results of the post-construction testing indicate an increase in the level of lead or other contaminate concentrations compared to the pre-construction baseline testing of the same area, and the Engineer determines that the increase is a result of the Contractor's operations, the Contractor will be required to remove the contaminated material and re-test the area until the pre-construction conditions are met. The Contract will not be accepted until the post-construction testing indicates that the staging areas are at or below their pre-construction conditions.

**CHARACTERIZATION SAMPLING AND ANALYSIS PLAN.** The Contractor's Characterization Sampling and Analysis Plan (CSAP) shall describe the methods of sampling and analysis for characterization of contaminated materials prior to off-site disposal as required by the disposal facility and Applicable Environmental Requirements. The CSAP shall describe the proposed methodology for obtaining representative samples of contaminated material for testing. Sampling and analysis shall be in accordance with the latest edition of "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846" published by the United States Environmental Protection Agency. The CSAP shall include the name(s) and qualifications of the State of California certified analytical laboratory(ies) that the Contractor proposes to use, and shall include a procedure for interpretation of the analytical data. The Contractor shall provide evidence of the laboratory's current certification to the Engineer in the submitted CSAP.

The Contractor shall perform all required sampling and analysis for characterization of the collected contaminated materials prior to the material's disposal. The Contractor shall submit the results of the material characterization to the Engineer for review a minimum of 48-hours in advance of the scheduled date for off-site transport of the material to any disposal facility or to any storage area on the site.

All tests required for materials characterization shall be performed at the Contractor's expense.

For purposes of disposal of lead-contaminated materials, the Contractor shall characterize the wastes into the following classifications:

- (1) Resource Conservation and Recovery Act (RCRA) Hazardous Waste: (>5 ppm Toxicity Characteristic Leaching Potential (TCLP)).
- (2) Class I Non-RCRA Waste: (<5 ppm TCLP, and >5 ppm Waste Extraction Test (WET) Soluble Threshold Limit Concentration (STLC), and /or >1000 ppm Total Threshold Limit Concentration (TTLC).
- (3) Class II Waste: (<5 ppm TCLP, and <5 ppm (WET)STLC, and >350 but <1000 ppm TTLC), provided the landfill is permitted to accept such waste.

**WASTE TRANSPORTATION AND DISPOSAL PLAN.** The Contractor's SOMHP shall include a Waste Transportation and Disposal Plan (WTDP).

WTDP shall include a Traffic Management Plan (TMP). The TMP shall describe the Contractor's methods for maintaining an efficient movement of haul trucks on and off the project site area. The TMP shall describe the proposed routes for off-site transport of contaminated materials to the various disposal facilities. The WTDP shall also describe waste profiling requirements of selected disposal facilities, and the pre-acceptance authorization arrangements between the Contractor and the selected disposal facilities/landfills. The Contractor shall include evidence of all permits and licenses required for transport of hazardous waste in the WTDP.

The Contractor shall dispose of all collected contaminated materials at landfills that are permitted to accept the various classifications of wastes as characterized in subsection "Characterization Sampling and Analysis Plan" of this Section. All waste materials containing the existing paint systems shall be disposed of by the Contractor at a facility approved to receive the specific type of waste, in compliance with Applicable Environmental Requirements, and in accordance with the requirements of the disposal facility operator. Prior to use of the disposal facility, the Contractor shall provide the Engineer with documentation verifying that said disposal facility is currently permitted to receive these waste materials. The waste materials containing the existing paint systems shall be hauled by a transporter currently registered with the California Department of Toxic Substances Control using correct manifesting procedures and vehicles displaying current certification of compliance with all Applicable Environmental Requirements for public road transport of such wastes. The Contractor shall make appropriate arrangements with the operator of the disposal facility and perform any testing of such debris required by the operator.

The WTDP shall include the methods to be used to monitor and record the shipment and disposal of all materials from the project site. The Contractor shall be responsible for originating copies of the waste shipment records and manifests required by the Federal government, the State of California, the state where the treatment/disposal facility is located, and the disposal facility. Wastes that are classified as hazardous shall be shipped under manifest. Wastes that are classified as non-hazardous shall be shipped under a Bill of Lading or other tracking document as determined between the landfill and the Contractor. These records/manifests shall be maintained by Contractor during the project and duplicate copies will be provided to District on a contemporaneous basis for all hazardous and non-hazardous materials that are shipped off the site. Attention is directed to "Removal of Lead and Other Hazardous Substances," elsewhere in these Special Provisions, concerning the party that is responsible for signing the manifests.

**ENVIRONMENTAL MONITORING.** The NPS and the District's Environmental Compliance Monitor will be monitoring various aspects of the construction site environmental compliance.

Attention is directed to the Mission Blue Butterfly Habitat Protection Plan and the Native Vegetation Habitat Protection Plan, a copy of which is incorporated in the Contract Documents and is included within Volume 2 of these Special Provisions, and to "Environmentally Sensitive Areas" elsewhere in these Special Provisions. Contractor shall comply with all requirements of these Habitat Protection Plans and all related provisions of these Special Provisions.

The Engineer's Environmental Compliance Monitor (ECM) will monitor the Contractor's operations to evaluate whether the Contractor is in compliance with all environmental, permit and authorization requirements. The ECM will perform visible emissions monitoring, air monitoring and soil monitoring and testing to evaluate the effectiveness of the Contractor's containment

systems and dust control measures and to enforce compliance with local, state and federal regulations.

The ECM and the Engineer will perform verification soil and surface sampling and testing after completion of the earthwork activities for removal of contaminated overlying and fractured rock material and for non-soil surface abatement inside the North Anchorage Housing; after completion of the structure excavation at the North Pylon; and after completion of the excavations for relocation of the utility duck bank. The results of these samplings and testings will be used by the Engineer as the baseline soil condition for determining whether Contractor's operations subsequent to the above noted work resulted in an increase of concentrations of contaminants at the previously cleaned areas.

The Contractor shall be solely responsible and must remediate or remove any increase in the concentrations of heavy metals or other contaminants in the site's soils or groundwater due to Contractor's activities or those activities of its subcontractors or agents.

Prior to the beginning of any work that may disturb existing paint systems, the ECM will perform baseline monitoring to obtain background levels. Subsequent monitoring will be performed during the Contractor's activities that disturb the existing paint system at times determined by the Engineer and without notice to the Contractor.

After completion of the work that disturbs the existing paint system, if soil sampling shows an increase in the concentrations of heavy metals or other contaminants above any baseline conditions, the area affected shall be cleaned and re-sampled by the Contractor at the Contractor's expense until soil sampling and testing shows concentrations of heavy metal statistically less than or equal to the concentrations collected prior to the beginning of the work that disturbed the existing paint system.

Where an increase in soil pollutant concentrations occur, in addition to removing and disposing of the contaminated soil, a revised Containment System and Collection Plan shall be submitted to the Engineer as an amendment to the SOMHP in accordance with "Plans and Working Drawing (Submittals)" elsewhere in these Special Provisions and in accordance with this Section.

Attention is directed to "Sound Control Requirements" elsewhere in these Special Provisions. The ECM will monitor the construction activities for compliance with these Special Provisions.

**PAYMENT.** Full compensation for conforming to the requirements in these permits, including preparing, submitting, implementing and maintaining all required work plans, the Applicable Environmental Requirements, and any other regulatory requirements imposed by the scope of work shall be considered as included in the Contract prices paid for the various Contract Items and no additional compensation will be allowed therefor.

**SP7-1.06 SAFETY AND HEALTH PROVISIONS.** The following is added to Section 7-1.06, "Safety and Health Provisions," of the Standard Specifications after the last paragraph of said section:

The Contractor's Safety and Security Representative shall be present at the jobsite at all times work is being performed. Attention is directed to "Contractor's Project Management Team" elsewhere in these Special Provisions regarding required minimum qualifications of the Contractor's Safety and Security Representative. The Contractor shall submit to the Engineer a copy of a letter of authority from the Contractor to the Safety and Security Representative that designates the representative by name and describes the authorities and responsibilities of the Safety and Security Representative, which shall include, but not be limited to, the following:

- 1) Responsibility for the preparation and maintenance, of the Contractor's Health and Safety Plans, and insuring that subcontractors and consultants likewise prepare and maintain their Health and Safety Plans;
- 2) Responsibility for field implementation, oversight, review and enforcement of Health and Safety Plans for the Contractor, subcontractors and consultants;
- 3) Responsibility for conducting jobsite toolbox safety meetings;
- 4) Maintaining records of any incidents requiring medical treatment beyond first aid and submittal of said records for each incident to the District;
- 5) Inspection and monitoring of the Contractor's and subcontractors' jobsite activities, including all temporary construction activities and traffic control operations, and managing the correction of any unsafe conditions;
- 6) Compliance with state, federal, and local worker health and safety regulations;
- 7) Submitting weekly reports to the Engineer, which record all material issues and events (e.g. all accidents, risk exposures, etc.) related to jobsite health and safety;
- 8) Authority to establish new health and safety controls as needed;
- 9) Conducting investigations of all accidents and reporting all accidents;
- 10) Responsibility for preparation and maintenance of project site security plan and procedures; and
- 11) Responsibility for implementation, oversight, review, enforcement of project site security plan and procedures.

The Contractor may assign additional personnel to assist the Contractor's Safety and Security Representative. The qualifications and experience of personnel that will assist the Contractor's Safety and Security Representative shall be subject to the review and approval by the Engineer. If the Engineer determines that the assigned personnel are not providing adequate health and safety controls, the Contractor shall secure the services of other safety and health personnel at its cost.

The Contractor shall abide by Applicable Environmental Requirements, as defined in "Permits, Licenses and Other Regulatory Requirements" elsewhere in these Special Provisions and shall take such other measures as may be necessary toward ensuring that the work will be done in a safe manner and that the safety and health of the employees and the people of local communities are safeguarded. Upon the failure of the Contractor to comply with any of the requirements of these Special Provisions, without limiting any other remedy of the District, the Engineer shall have the authority to stop any operations of the Contractor affected by such failure until the failure is remedied, and Contractor shall not be entitled to assert any claim for any of the time lost or for any increased costs or damages due to such stop orders.

It is understood and agreed that Contractor is solely responsible for job-site safety and all



supervision related to it. The District's review and approval of the Contractor's submittals relating to job-site safety will not at any time relieve Contractor from retaining sole and full responsibility for all aspects of its health and safety plans. Contractor agrees that it will not depend on the Engineer for direction as to maintaining a safe jobsite. Contractor shall immediately suspend operations and make immediate corrections when, in the opinion of the Engineer, Contractor's operations are being conducted in an unsafe manner and/or when the jobsite is in an unsafe condition. No additional compensation or Contract time will be granted to the Contractor for the correction of any aspect of Contractor's work that is unsafe.

The Contractor must immediately provide verbal notification to the Engineer of any incident at the jobsite that requires medical attention beyond first aid for any injured worker. Contractor shall provide a written report of the incident within 24 hours of the incident.

**HEALTH AND SAFETY PLANS.** The Contractor's Health and Safety Plan (HASP) shall describe in detail the procedures and contingency actions necessary to complete the work in a safe manner without endangering on-site personnel, the community, or the environment. The HASP shall cover all aspects of worker protection and construction site health and safety for all phases of the scope of work, including, but not limited to, the following:

- Code of Safe Practices
- Injury and Illness Prevention Program
- Hazard Communication Program
- Fall Protection Plan
- Crane Safety Plan
- Confined Space Plan
- Emergency Plan and Procedures
- Welding Safety Plan
- Scaffolding and Work Platform Safety Plan
- Employee Training Plan
- Personnel Protection Program
- Personal Protective Equipment Plan
- Respiratory Protection Plan
- Hazardous Waste Operations Plan

The Contractor shall submit to the Engineer in accordance with "Plans and Working Drawings (Submittals)" elsewhere in these Special Provisions its HASP, which must contain the Contractor, its subcontractors and consultants' programs, plans and procedures that are listed above and any other programs, plans and procedures required for the work. The HASP shall explain in detail the Contractor, its subcontractors and consultants' proposed practices and procedures for all aspects of construction site health and safety, and it shall also conform to the requirements of the Department of Industrial Relations, California Code of Regulations, Title 8, published by the California Occupational Safety and Health Administration ("Title 8") and other Applicable Environmental Requirements.

**WORKER PROTECTION.** The Contractor, its subcontractors and consultants shall develop, implement, and maintain a complete worker protection program for all personnel working at the site as an integral part of the HASP.

Attention is directed to "Clean & Paint Structural Steel" elsewhere in these Special Provisions, which requires the Contractor to perform activities that will disturb the existing paint systems,

and to "Earthwork", and "Non-Soil Surface Abatement" elsewhere in these Special Provisions, which require the Contractor to perform work activities involving removal of hazardous waste, contaminated debris, overlaying soil and fractured rock materials.

The worker protection plan shall include all additional provisions required under Title 8 for protecting all personnel that will perform site work activities associated with "Clean and Paint Structural Steel," "Earthwork," "Non-Soil Surface Abatement" and all other operations, which disturb the existing painted surfaces or paint systems, including but not limited to those activities involved in the removal, replacement and installation of existing and new fasteners and the relocation and modification of the existing steel, and those activities, which disturb debris contaminated with lead, zinc, cadmium or other metals.

The worker protection plan shall include a site specific worker protection compliance program.

The site-specific worker protection compliance program shall include the following elements as a minimum:

- Respiratory protection program.
- Eye protection.
- Dermal protection.
- Environmental and personnel monitoring.
- Personnel and equipment decontamination.
- Industrial hygiene.
- Medical monitoring.
- Employee training, inclusive of all specialized hazardous materials handling and abatement training and hazardous materials contingency plan.
- Delineation of work zones.
- Record keeping.
- Emergency procedures.

The implementation of the worker protection compliance programs shall be monitored by an industrial hygienist certified by the American Board of Industrial Hygiene or other competent person capable of taking corrective action. Copies of all inspection reports made in accordance with Title 8 shall be furnished to the Engineer within three (3) working days of inspection covered by the report.

The Contractor must obtain Engineer's approval of such site specific worker protection compliance monitoring programs before starting any of the operations associated with "Clean and Paint Structural Steel," "Earthwork," "Non-Soil Surface Abatement" and all other operations, which disturb the existing painted surfaces or paint systems and at such times when revisions to the program are required under Title 8. The site-specific compliance programs shall be prepared by an industrial hygienist certified by the American Board of Industrial Hygiene.

The Contractor shall provide the services of an industrial hygienist certified by the American Board of Industrial Hygiene (IH) or Safety Professional with at least five years experience in the chemical industry and/or the chemical waste disposal industry to prepare, direct and approve the development, implementation, and enforcement of the Personnel Protection Program, Respiratory Protection Plan, Air Monitoring Program and all other worker protection provisions required under Title 8 for the work activities noted above. The name and qualifications of the Contractor's IH shall be submitted as part of the HASP and shall be subject to the approval of the Engineer.

**PERSONNEL AND EQUIPMENT DECONTAMINATION REQUIREMENTS.** The Contractor shall prepare and implement personnel and equipment decontamination procedures and facilities to minimize or eliminate contamination by hazards at the site. The Contractor's Safety and Security Representative shall supervise all decontamination activities. All personnel shall be instructed as to the proper decontamination procedures consistent with all Applicable Environmental Requirements. Minimum decontamination procedures shall be as set forth in Title 8.

The Contractor shall set up personnel decontamination facilities with decontamination features, including wash stations, tubs, rinse equipment, boot racks, changing facilities and equipment storage and disposal facilities. The Contractor shall submit the personnel decontamination facilities plan as part of the HASP.

The Contractor shall provide and maintain the personnel decontamination facilities for all personnel involved with "Clean and Paint Structural Steel," "Earthwork," "Non-Soil Surface Abatement" and any other work activities that disturb existing paint or contaminated soils or debris at the site. Personnel shall use the decontamination facilities as specified in the approved HASP.

The Contractor's Safety and Security Representative shall be responsible for initiating heat stress monitoring of personnel working in protective clothing or respiratory protection when ambient temperature exceeds 70 degree F. Work-rest regimens shall be established. Contractor personnel shall be trained in the types, symptoms, and first aid for heat stress.

**MEDICAL MONITORING.** The Contractor shall perform medical monitoring of employees that perform site work activities associated with "Clean and Paint Structural Steel," "Earthwork," "Non-Soil Surface Abatement" in accordance with Title 8. The Contractor shall submit a summary of the blood lead test results of the Contractor's employees, not including employee names, to the Engineer within seven (7) days of receiving the results.

The Contractor shall utilize the services of a State of California licensed occupational health physician to provide the medical examinations and surveillance specified herein. The name of this physician shall be provided to the Engineer prior to commencement of the work at the site. Minimum medical surveillance shall be performed in accordance with Title 8. Records shall be maintained and retained in accordance with Title 8.

All personnel involved in the work associated with "Earthwork," "Non-Soil Surface Abatement" and "Clean and Paint Structural Steel" or work with or near potentially contaminated soil material shall undergo medical examinations prior to participation in on-site operations, at the conclusion of the work, and at 12-month intervals during the work, and as required by Title 8.

The Contractor's physician shall provide a medical certification that each employee is suitable for employment on the job, including being able to use the necessary respiratory protection.

All truck drivers must have successfully completed a medical examination as required by the U.S. Department of Transportation before being permitted to access the site.

The Contractor shall prearrange for emergency medical care services at a nearby medical facility and shall define emergency routes. The services of a local trauma center, if available, shall also be prearranged. The staff at the facilities shall be advised of the potential medical emergencies

that might result and that the patient's clothing and skin might be contaminated with hazardous wastes. The Contractor shall establish emergency communications with health and emergency services. The name of these facilities, name of contact, definition of emergency routes, and emergency communications arrangements shall be provided in the HASP.

At least one first aid station supplied with at least one industrial-size first-aid kit, including blood borne pathogen personnel protective equipment in accordance with Title 8, and a stretcher shall be provided and maintained fully stocked by the Contractor at a central location at the work site. Should active work areas be so isolated or separated as to make one central first-aid station location impractical, then multiple first-aid stations shall be established close to the work.

The first-aid station(s) shall be clearly marked.

The Contractor shall have at least one person certified in first aid on the site at all times and additional personnel at each isolated or separated work area at all times. These personnel may perform other duties, but must be immediately available to render first aid when needed. Certification shall be by the American Red Cross or other approved agencies. Upon request of the Engineer, these personnel must show proof of a current first aid card.

If any Contractor's employee has a time-loss illness exceeding one working day, or injury during the period of work, the Contractor must present a written statement indicating the employee's fitness, signed by a qualified physician, prior to the employee re-entering the work site. A copy of the written statement shall be submitted to the Engineer.

**EMPLOYEE TRAINING REQUIREMENTS.** With respect to any personnel proposed for work on this site, the Contractor's Safety and Security Representative or IH shall be responsible for providing all required on-site occupational hazard and any other employee training before such personnel may start work on the site as required under Title 8.

Follow-up training shall be provided by the Safety and Security Representative at daily tailgate safety meetings and prior to each change in operation. The Safety and Security Representative shall also provide initial training for replacement personnel using the training outlines developed by the Contractor.

All work include in "Earthwork" and "Non-Soil Surface Abatement" that involves disturbing or handling contaminated material and all other work that disturbs lead contaminated soil and material shall be performed by workers who are certified to have completed "40-hour HazMat training" under the Cal-OSHA HAZWOPER program and any required refresher training, as well as lead-awareness and related training under Title 8.

The Contractor's personnel entering any excavation, staging, or decontamination areas shall be trained in the appropriate safety procedures as set forth in Title 8. These rules shall apply to the general construction activities to be undertaken at this site.

All personnel entering the decontamination areas or beyond shall be informed of the possible dangers and long-term hazards present at this site, in compliance with the "right-to-know" regulations.

Workers who handle hazardous materials destined for off-site shipment shall be trained in accordance with U.S. Department of Transportation regulations 49 CFR172.

The Contractor shall compile and maintain a written log of all training and follow-up training sessions as required by Title 8.

**LOGS AND REPORTS.**--The Contractor shall prepare logs, reports, and records in accordance with all applicable health and safety rules and regulations and these Special Provisions and maintain all of these documents in discrete, chronological project files.

A separate sign-in / sign-out sheet shall be used for each day of operations to provide a written log of each employee and item of equipment that is located in each specific work area. The proposed format of the sign-in / sign-out sheets shall be submitted as part of the HASP. Completed sign-in / sign-out sheets shall be maintained in a chronological project file.

The Contractor shall submit a detailed written report to the Engineer regarding any injury, illness, accident, or exposure within 24 hours of the incident. As required by law, the local OSHA office and the Engineer shall be notified within eight hours of any fatalities or hospitalizations. All incident reports or notifications shall include at least the following information:

Employee's name.

Date, time and nature of the incident.

First aid, medical care, or other actions taken.

The procedures set in place to prevent a recurrence of the incident.

**EMERGENCY PROCEDURES.** --The Contractor shall abide by the written emergency procedures, as prescribed in the HASP, to be implemented in the event of an accident or uncontrolled release(s) of hazardous substances by the Contractor. A summary of important data, contact numbers, routes, etc. shall be posted for employees and readily available for office and security personnel.

The Contractor's personnel shall be responsible for the execution of emergency procedures, and for coordination of emergency response activities, caused by an accident or uncontrolled release(s) of hazardous substances by the Contractor. These emergency procedures shall include provisions for notification of local authorities for evacuation of the community in the event of an imminent threat to the community's health and safety.

The Contractor and the transportation vehicle operators that will be transporting hazardous waste from the site shall be responsible for initiating emergency response and allocating the resources to conduct spill containment and cleanup for transportation-related spills or emergencies, at no additional cost to the District.

The Contractor shall be responsible for notifying all applicable regulatory agencies respecting any emergency on the site related to Contractor's scope of work. Each agency and the emergency contact must be specified in the emergency procedures. The Contractor shall immediately notify the Engineer whether a regulatory agency or emergency contact is notified. The Contractor shall provide a written report of any such notification within 8 hours of the event. The report shall include, as a minimum, the name of the agency or emergency contact, the person who was contacted, the person for the contact and the agency or contact response. The Contractor shall inform the Engineer of any follow-up contacts or correspondence.

All Contractor personnel shall read and agree in writing to be bound and abide by the emergency procedures. The emergency procedures shall be included as a topic in the initial training specified in "Employee Training Requirements", elsewhere in these Special Provisions.

**PAYMENT.** Full compensation for conforming to the provisions in this Section "Health and Safety Provisions" of these Special Provisions shall be considered as included in the Contract prices paid for the various Contract Items and no additional compensation shall be allowed therefor.

**SP7-1.23 REMOVAL OF LEAD AND OTHER HAZARDOUS SUBSTANCES.** As specified elsewhere in these Special Provisions, the Contractor is to perform certain work in connection with materials that are known to include hazardous substances. These materials include soil, surfaces and other media contaminated with lead, zinc and cadmium, and lead-based paints on existing steel and concrete structures and located throughout the site.

The following paragraphs describe known lead contamination or hazardous substances that are likely to be encountered by the Contractor. Full compensation for the containment, monitoring, handling, sampling, testing, analysis, storage, transport, disposal and all other actions required to complete the scope of work involving such hazardous materials shall be included in the contract prices bid for the various Contract Items, and no additional compensation will be allowed therefor:

1. The work site for this Contract includes areas and surfaces that are impacted by lead contaminated soils and other media. The Contractor shall comply with all Applicable Environmental Requirements, as defined in "Permits, Licenses and Other Regulatory Requirements," elsewhere in these Special Provisions relating to the work contemplated by this Contract, including but not limited to clearing and grubbing, trenching, excavation, non-soil surface abatement or other disturbances of the lead contaminated areas. Attention is directed to the laws and regulations relating to the containment, monitoring, handling, sampling, testing, analysis, storage, transportation and disposal requirements for lead contaminated soils and other media, and particularly to those laws and regulations relating to the protection of workers involved with the handling of soils or other media that is contaminated by hazardous substances and relating to the excavation or removal of such hazardous materials.
2. Contractor's work under the Contract includes the containment, monitoring, handling, sampling, testing, analysis, storage, transport and disposal of (i) media affected by hazardous substances, including lead, zinc and cadmium, and (ii) any hazardous substances related to any paint medium previously used on the site. The work site for this Contract includes areas that were previously remediated for lead-based paint. Attention is directed to Section SP7-1.04, "Permits, Licenses and Other Regulatory Requirements" of the Special Provisions regarding Contractor's obligations with respect to the handling and removal of lead, cadmium and zinc affected media and the avoidance of contamination of any media or areas from the Contractor's operations under this Contract.
3. The work for this Contract includes areas (such as the north and west entrance areas to the North Anchorage Housing, the unpaved access road (Bluff Road) that accesses the underside of the suspension bridge and the exterior of the North Pylon, Moore Road and the ravine from the east leg of the North Pylon to Moore Road where the existing utility bank is located) that were previously remediated to address soil contaminated by lead, zinc, cadmium and other metals. The remediation was performed to DTSC's approved threshold level of 1396mg/kg lead. Subsequent to the remediation lower elevation within these areas may have been impacted by contaminated runoff from the adjacent upslope hillsides and these areas shall be considered contaminated. Any excavation or disturbance of soil in these areas will require the Contractor to utilize special procedures for remediation of soils contaminated by hazardous substances in accordance with the Applicable Environmental Requirements for such materials.
4. The work for this Contract may include access across non-project areas that are known to contain contaminated soil and vegetation. These adjacent non-project areas include lands immediately adjacent to portions of the west and east walls of the North Anchorage Housing. These areas have not been designated for the Contractor's use. Should the

Contractor elect to use the areas to access the work, any clearing, excavation or disturbance of soil in these areas will require the Contractor to use special procedures for remediation of contaminated soils and vegetation containing hazardous substances, i.e. lead, zinc and cadmium-based paint media, in accordance with the Applicable Environmental Requirements for such hazardous materials. The Contractor shall perform such work at his own cost.

The project scope of work includes all of the above-specified work. The Contractor is not entitled to any additional compensation and/or time for work described in the above paragraphs due to hazardous materials.

The District is considered and designated the generator under this Contract of all materials and wastes which originate from the land and structures on the site (hereinafter "Site Materials"), other than Contractor's Waste, as defined in "Hazardous Waste and Other Waste Due to Contractor's Operations," elsewhere in these Special Provisions. The District will obtain any necessary generator identification numbers required for completing the manifest documents for the Site Materials, and the Contractor will be responsible for originating and properly completing copies of the waste shipment/manifests for the Site Materials. The Engineer will sign the manifest forms on behalf of the District as the generator of the Site Materials, and will retain the original of the signed forms.

The Contractor shall be solely responsible for any Contractor's Waste. The Contractor will be solely responsible for obtaining and using its own generator number for any Contractor's Waste. Contractor will be solely responsible for originating, properly completing and signing any manifest forms and supplying its generator number for any Contractor Waste.

The Contractor shall be solely responsible for ensuring that : (i) Site Materials and Contractor's Waste are sampled, analyzed, handled, transported and disposed of in compliance with Applicable Environmental Requirements; and (ii) all transporters, storage facilities, and treatment or disposal facilities that are selected to handle and receive Site Materials or Contractor's Waste are permitted, licensed, and approved by all applicable regulatory agencies and are in full compliance with Applicable Environmental Requirements.

In accordance with Section 25914.2 of the California Health and Safety Code, any hazardous substance removal or remediation work in areas of the site where hazardous substances are not expected or identified in the bid documents, including any exploratory work to identify and determine the extent of such unanticipated and undisclosed hazardous substances, will be performed by separate contract or by executed Contract Change Order.

Should the Contractor encounter materials that the Contractor reasonably claims to include unanticipated and undisclosed hazardous substances and the hazardous substance has not been rendered harmless, the Contractor shall immediately cease work in the affected area and report the condition to the Engineer in writing. If the Engineer concludes that the materials are hazardous substances that were undisclosed in the bid documents, then the Contractor will cease further work on such area and the same will be addressed by separate bid and contracting. If the Contractor believes the situation is life threatening, the Contractor shall immediately evacuate the affected area and contact the Engineer and the local Fire Department.

Notwithstanding the foregoing, Contractor shall continue to work in those areas unaffected by the suspected unanticipated and undisclosed hazardous substance.



June 18, 2008



**GOLDEN GATE BRIDGE**  
HIGHWAY & TRANSPORTATION DISTRICT

Environmental Studies and  
Preliminary Design for a Physical  
Suicide Deterrent System on the  
Golden Gate Bridge  
Contract No. 2006-B-17

Mr. Greg McConnell, District Branch Chief,  
Environmental Analysis  
CALTRANS, Office of Environmental Analysis  
Mail Station 8-B  
P.O. Box 23660  
Oakland, CA 94623-0660

**Re: Project Staging Areas – Temporary Occupancy**

Mr. McConnell:

The Golden Gate Bridge, Highway and Transportation District's (District) Physical Suicide Deterrent System Project proposes five build alternatives and one no-build alternative. Should one of the build alternatives be chosen as the preferred alternative and should the project go forward to construction, staging areas will be required.

The District has identified five potential staging areas for the project: four on the north side and one on the south side of the Golden Gate Bridge (Bridge). The four potential north side staging areas are not open to the public. The one potential staging area on the south side of the Bridge is a District parking lot that was recently constructed and has 24 parking stalls available for public use. If this parking lot were to be used for staging, the 24 parking stalls would not be available for public use. Since the parking area is relatively new (two years) and there are other parking areas available closer to the Bridge, the public parking stalls have never been fully utilized.

The public will be able to park in other areas that are closer to the Bridge that will not be impacted by the project. These include the District's east parking lot below the Roundhouse gift center and the National Park Service (NPS) parking lot off Lincoln Boulevard and Battery East Road. In addition, on weekends and holidays, the District's west parking lot adjacent to the Toll Plaza is available for public parking.

All of the proposed build alternatives have estimated project durations of 24 to 36 months during which time the staging areas may be occupied.

Should you have further questions, I can be reached at (415) 923-2023.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Lee".

Jeffrey Y. Lee, P.E.  
Project Manager

JYL/crh

c: Ms. Sylvia Fung, Caltrans  
Steve Morton, DMJM Harris  
Phyllis Potter, Circle Point  
DJMulligan/EZBauer/JREberle/2.18.4.1  
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