

APPENDIX VIII

SAMPLE SOIL MANAGEMENT WORK PLAN

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SOIL MANAGEMENT WORK PLAN – PACIFIC COAST HIGHWAY, BETWEEN CALLE MAYOR AND
JANET LANE PROJECT

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SAMPLE

SOIL MANAGEMENT WORK PLAN – PACIFIC COAST HIGHWAY, BETWEEN CALLE MAYOR AND JANET LANE PROJECT

1.0 INTRODUCTION

1.1 Site Location

The proposed improvement project area consists of approximately 2,850 feet within a raised island adjacent to the southbound shoulder of Pacific Coast Highway (PCH), between Calle Mayor and Janet Lane, in the City of Torrance, Los Angeles, California. The City of Torrance (the City) intends to install new fencing, guardrails, and landscaping within the project limits.

This plan has been prepared to address the removal and off-site disposal of near-surface aerially deposited lead containing soil. The approximate location of the site is depicted on the Vicinity Map, Figure 1. The approximate limits of the remedial excavation are shown on the Site Plans provided as Figures 2-1 through 2-5.

1.2 Background

On June 19, 2015, Geocon collected 60 soil samples using hand-auger at the Site. Results of the soil sampling are presented in the report entitled *Aerially Deposited Lead Site Investigation Report, Pacific Coast Highway, Between Calle Mayor and Janet Lane, Torrance, California*, dated July 31, 2015, and summarized below.

Total lead was detected in the 60 soil samples at concentrations ranging from 1.6 to 1,200 milligrams per kilogram (mg/kg). Thirty one of the 60 soil samples had reported total lead concentration greater than 50 mg/kg (ten times the Soluble Threshold Limit Concentration [STLC] for lead of 5.0 mg/l) and were further analyzed for soluble lead using the Waste Extraction Test (WET). Sixteen soil samples with total lead concentrations greater than 100 mg/kg (20 times the Federal RCRA hazardous waste threshold of 5.0 mg/l) were further analyzed for Toxicity Characteristic Leaching Procedure (TCLP) soluble lead. Six soil samples randomly selected were analyzed for soil pH.

WET soluble lead was detected in 29 of the 31 soil samples analyzed at concentrations ranging from 2.0 to 35 mg/l. TCLP soluble lead was detected in 15 of the 16 soil samples analyzed at concentrations ranging from 0.16 to 0.98 mg/l, less than the Federal RCRA threshold value of 5.0 mg/l. Soil pH for the six soil samples analyzed ranged from 5.2 to 6.7.

Based on the analytical results, the report concluded that the upper 1.5 feet of soil within the project limits, if excavated for removal, would be classified as a California hazardous waste based on soluble lead content in excess of the STLC for lead of 5.0 mg/l.

2.0 REMOVAL ACTION

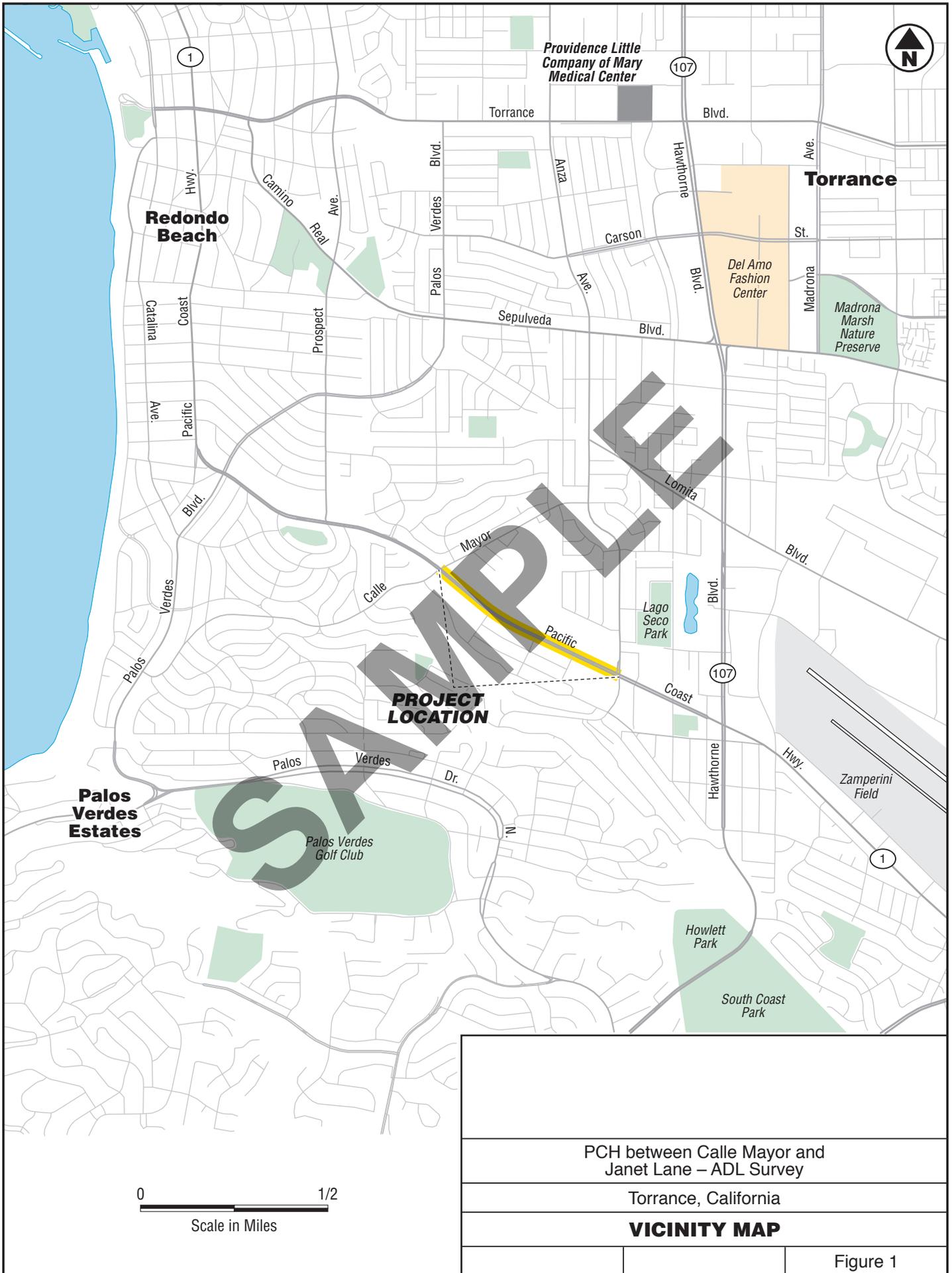
The City plans to excavate and dispose of the upper 1.5 feet of soil from within the project limits. The following sections describe the recommended remedial site activities and provide procedures and protocols for the removal of the soil classified as California hazardous waste within the project limit.

- A Contractor, with a class A License for Hazardous Substances Removal and Remedial Actions Certification, will be retained to perform the remedial excavation. All onsite personnel involved with the remedial aerially deposited lead soil removal operations shall have completed 40-Hour Hazardous Waste Operations Training per Title 8 of the CCR, Section 5192 and applicable annual update training.
- The selected Contractor will agree to the site-specific Health and Safety Plan (HSP) prepared by the City under the direction of, and signed by, a Certified Industrial Hygienist. The HSP will describe project staff training requirements, provide guidelines on the use of personal protective equipment, and outline dust monitoring protocols. In addition, the HSP will summarize the health and safety procedures to be implemented during the field activities.
- The selected Contractor will prepare a Soil Disposal Transportation and Traffic Plan outlining haul routes to be followed by vehicles transporting the excavated soil off-site.
- The selected Contractor will obtain pre-approval from an appropriately licensed landfill facility for acceptance of the waste soil. The designated landfill facility will be pre-approved by the City of Torrance and Caltrans.
- The selected Contractor will obtain a California EPA Waste Generator ID for the project. The Generator ID will designate Caltrans, the property owner, as the waste generator.
- A minimum of a 48-hour notice prior to the start of the soil excavation activities to subscribing local public utilities via Underground Service Alert (USA). Field meetings with public utility USA subscribers and utility potholing may be necessary to adequately delineate subsurface public utilities and conduits in proximity to the proposed remedial excavation locations.
- Temporary construction fencing will be erected around the perimeter of the planned remedial excavation areas. Entry into the fenced working areas will be restricted to appropriately OSHA-trained personnel.
- The upper 1.5 feet of soil within the project limits will be excavated using equipment to be determined by the selected Contractor. The excavated lead-containing soil may be loaded directly into haul trucks or may be temporarily stockpiled prior to loading.
- If the material is to be stockpiled, the stockpiles will be securely covered with minimum 6-mil plastic sheeting when they are not being actively worked.
- The haul trucks transporting the soil off-site for disposal will be covered with tarps and appropriately manifested prior to transporting the material to the designated landfill facility.

- A representative of Caltrans will sign the waste profile forms and Uniform Hazardous Waste Manifests as the waste generator.
- Dust control measures, including watering the active work areas (including stockpiles) to prevent visible dust, will be implemented. Work will be suspended if weather conditions, including wind speeds or gusts exceeding 25 miles per hour, prevent effective dust control.
- Excavation equipment will be inspected and cleaned of visible soil and/or mud (if necessary) prior to leaving the fenced excavation areas. Cleaning (decontamination) will include physically scraping and-or rinsing visible soils, dirt and mud from vehicle tires or track surfaces and thoroughly rinsing with clean water. Waste water generated during the decontamination process will be discharged to exposed soil within the Caltrans ROW away from surface water bodies or storm drain inlets.
- Perimeter air monitoring will be performed to evaluate potential air-borne concentrations of lead at locations up and down-wind of the excavation area and along the boundary with the adjacent residences.

3.0 REPORT PREPARATION

The Contractor will prepare a summary report upon completion of the remedial excavations and soil disposal activities. The report will include a summary of the remedial soil excavation activities, including excavation limits and volumes, results of air monitoring data, and copies of waste disposal manifests.





Match Line (See Figure 2-2)

LEGEND:

----- Approximate Limits of Proposed Soil Excavation



0 40
Scale in Feet

PCH between Calle Mayor and Janet Lane – ADL Survey	
Torrance, California	
SITE PLAN	
	Figure 2-1

Match Line (See Figure 2-1)

Match Line (See Figure 2-3)



LEGEND:

----- Approximate Limits of Proposed Soil Excavation



0 40
Scale in Feet

PCH between Calle Mayor and Janet Lane – ADL Survey

Torrance, California

SITE PLAN

Figure 2-2

Match Line (See Figure 2-2)



Match Line (See Figure 2-4)

LEGEND:

----- Approximate Limits of Proposed Soil Excavation



0 40
Scale in Feet

PCH between Calle Mayor and Janet Lane – ADL Survey

Torrance, California

SITE PLAN

Figure 2-3

Match Line (See Figure 2-3)



Match Line (See Figure 2-5)

LEGEND:

----- Approximate Limits of Proposed Soil Excavation



0 40
Scale in Feet

PCH between Calle Mayor and Janet Lane – ADL Survey

Torrance, California

SITE PLAN

Figure 2-4

Match Line (See Figure 2-4)



Match Line (See Figure 2-6)

LEGEND:

----- Approximate Limits of Proposed Soil Excavation



0 40
Scale in Feet

PCH between Calle Mayor and Janet Lane – ADL Survey	
Torrance, California	
SITE PLAN	
	Figure 2-5

Match Line (See Figure 2-5)



LEGEND:

----- Approximate Limits of Proposed Soil Excavation



0 40
Scale in Feet

PCH between Calle Mayor and Janet Lane – ADL Survey	
Torrance, California	
SITE PLAN	
	Figure 2-6