

**Addendum to the
Pier 400 Container Terminal and Transportation
Corridor Project Supplemental Final
Environmental Impact Report for the ILWU
Training Center**

APP No. 210922-155

SCH No. 98031135 (SCH Reference No. 1998031135)

Prepared By:

City of Los Angeles Harbor Department
Environmental Management Division
425 S. Palos Verdes St.
San Pedro, CA 90731

February 2022



Table of Contents

Introduction.....	1
Background.....	2
Proposed ILWU Project.....	5
Purpose.....	7
Scope and Content	8
Previous Environmental Documents Incorporated by Reference	9
Required Permits and Approvals	10
Environmental Analysis.....	11
Aesthetics	11
Agriculture and Forestry Resources	11
Air Quality	11
Biological Resources.....	12
Cultural Resources	13
Energy	13
Geology and Soils	13
Greenhouse Gas Emissions	14
Hazards and Hazardous Materials.....	14
Hydrology and Water Quality	15
Land Use and Planning.....	15
Mineral Resources.....	15
Noise	15
Population and Housing	15
Public Services	15
Recreation	16
Transportation	16
Tribal Cultural Resources.....	16
Utilities and Service Systems	16
Wildfire	17
Conclusions.....	18
References.....	19
Figures.....	
Figure 1. Previously Assessed Pier 400 Project Area.....	2
Figure 2. Proposed ILWU Project Area	3
Tables.....	
Table 1. Maximum Daily Construction Emissions.....	11
Table 2. Maximum Daily Operational Emissions	12
Table 3. Annual Project GHG Emissions	13
Appendices.....	
Appendix A. Air Quality Calculations	

1. Introduction

Pursuant to the California Environmental Quality Act (CEQA) Public Resources Code section 21000 et. seq., this Addendum to the Pier 400 Container Terminal and Transportation Corridor Project (Pier 400) Supplemental Final Environmental Impact Report (EIR) for the International Longshore and Warehouse Union (ILWU) Training Center has been prepared to address the development of a maintenance-and-repair training center on a 4-acre site located at the elbow of Pier 400 (Figure 2) within the Port of Los Angeles (Port). The Pier 400 Project Supplemental EIR (adopted by the Los Angeles Board of Harbor Commissioners (Board) in October of 1999 (SCH# 98031135 and APP No. 980107-003)) was developed to assess development of alternative projects to the Deep Draft Navigation Improvements Environmental Impact Statement (EIS)/EIR. In the Final EIR, the Los Angeles Harbor Department identified accommodation of efficient cargo throughput at the Port as one of the primary objectives of the Pier 400 Container Terminal Project. The Final EIR evaluated construction and development of a fully operational container terminal (Figure 1), and included construction of multiple buildings to support terminal operations.

In 2019, PMA and ILWU reached an agreement on a Worker Training Program in Southern California to enable ILWU longshore workers to keep pace with modernization in the container shipping industry through specialized, technical training in the maintenance and repair of environmentally-friendly, reduced-emission terminal equipment and technology. In September of 2021, Pacific Maritime Association (PMA) submitted an Application for Port Permit (APP) to lease and develop 4 acres of land in order to develop a 20,000 square foot (sf) state-of-the-art training facility dedicated to training ILWU members working in the Southern California Ports. The Proposed ILWU Project, which will add the ILWU Training Center to the site, would be developed and built in order to train and provide ILWU workers with skills required to maintain and repair cargo handling equipment, which would support terminal operations at Pier 400 and at other terminals at the Ports of Los Angeles and Long Beach.

This Addendum to the Final EIR for the ILWU Training Center Project (ILWU Addendum) assesses the construction and operation of a training center to be located at the elbow of Pier 400 (Figure 2). As the project site is currently vacant, the site would require alterations for operation as a training facility. Structures to be installed on the project site include a 20,000 sf pre-fabricated metal building, two pre-fabricated classrooms, and a pre-fabricated restroom. A personal vehicle parking lot will be designated as well. Landscaping may be installed on the perimeter of the 20,000 sf metal building. Training operations would include the maintenance and repair of cargo handling equipment, including but not limited to 20 foot (‘) and 40’ chassis, semi-tractors/utility tractor rigs (UTRs), forklifts, heavy-lifts, top-picks, and side-picks. All repair and maintenance training would occur within buildings as classroom training or hands-on training. The construction and operation of a training center at Pier 400 consists of activities that would not create any new impacts nor a substantial increase to impacts previously disclosed in the Final EIR. A Los Angeles Harbor Department Entitlement valid for 10 years upon issuance would be granted to PMA for construction and operation of the Proposed ILWU Project.

With the assistance of Science Application International Corporation, the Final EIR was prepared by the City of Los Angeles Harbor Department (LAHD) as Lead Agency under the CEQA to address the potential environmental effects of the Proposed ILWU Project. Accordingly, this Addendum is being prepared pursuant to the requirements of CEQA Guidelines Section 15164 and confirms that no new significant impacts or substantial increases in severity of previously-identified impacts would occur as a result of the Proposed ILWU Project.

2. Background

2.1 Facility Overview

The project area assessed in the Final EIR is shown in Figure 1. The Proposed ILWU Project site is located within the elbow of Pier 400 (Figure 2) along the eastern side of Navy Way and Wall Street. The Project site is paved, uncovered, and located on Harbor Department property. The Proposed ILWU Project site is surrounded to the north, west, and south west by the active Pier 400 Container Terminal.

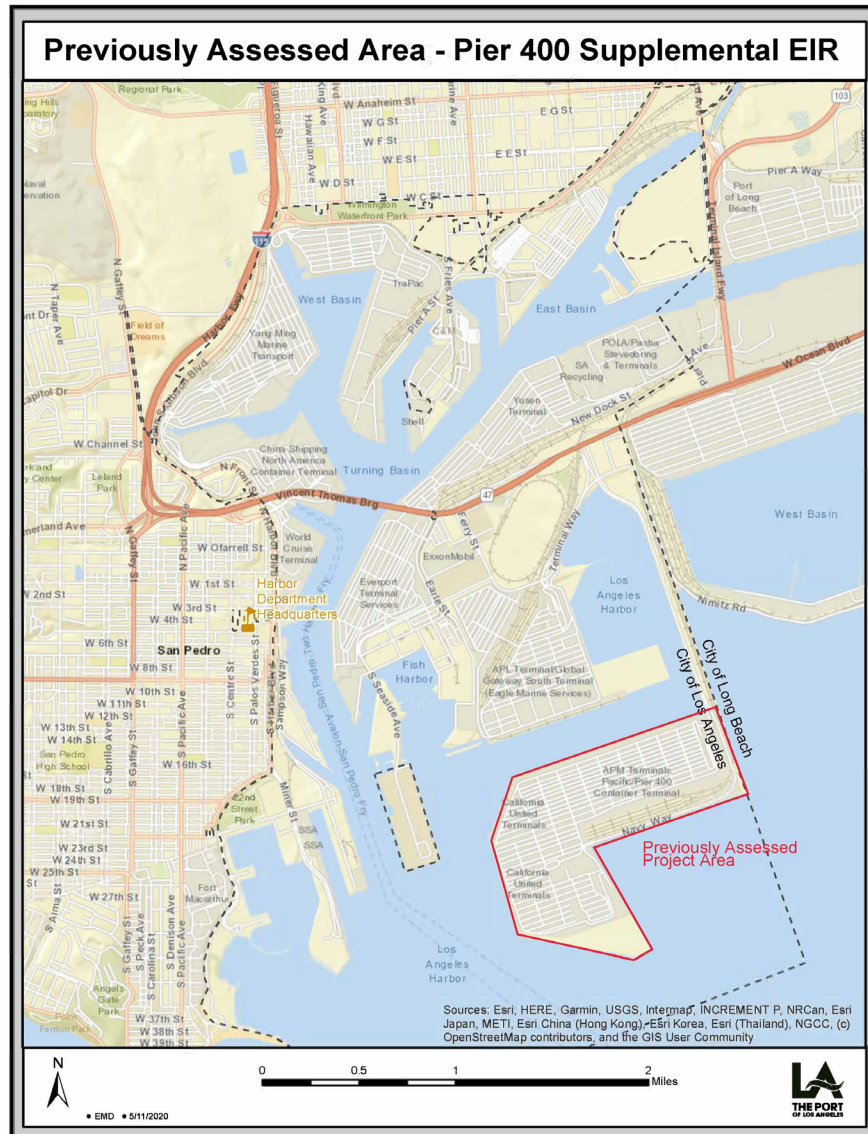


Figure 1 – Previously Assessed Pier 400 Project Area



Figure 2 –Proposed ILWU Project Area

2.2 Previously Assessed and Approved Project Elements

The Board adopted the Supplemental Final EIR and certified the approved Proposed ILWU Project in October of 1999 (SCH# 98031135 and APP No. 980107-003). The approved Pier 400 Project evaluated the following components:

- Development of transportation infrastructure to maximize cargo handling efficiencies while minimizing air quality and transportation impacts (including intermodal, near-dock rail facilities);
- Allotment of adequate backland space immediately adjacent to the berth to facilitate rapid loading and unloading of ships without the need to double-handle containers; and
- Preservation and improvement to environmental resources to the maximum extent possible.

The approved Pier 400 Project was designed as a two-phase (Phase 1A and 1B) development that would result in a 345-acre container terminal with full rail, highway, and utility access. Phase 1A included construction of rail and highway access leading to and on the transportation causeway, and construction of the easterly 174 acres of the Pier 400 into a fully operational container terminal. Phase 1B involved the construction of the remaining 171 acres of Pier 400 into a container terminal.

3. Proposed ILWU Project

This Addendum serves to assess the construction and operation of a currently vacant, paved, uncovered site located at the elbow of Pier 400. The Final EIR written for the development of the Pier 400 Container Terminal assessed the construction of a 345-acre container terminal (Figure 1). The addition of a training center was not assessed in the Final EIR, therefore an Addendum to the Final EIR is necessary. An Addendum would be written to the Final EIR since the training center will be built within the area assessed within the Final EIR (Figure 2), and because the Final EIR assessed the construction of terminal support facilities. As such, this Addendum has been prepared to disclose any change in impacts generated by the construction and operation of a training center at Pier 400.

The Proposed ILWU Project will encompass approximately 4 acres of currently vacant, paved, uncovered Harbor Department property located at a southeast elbow of Pier 400, east of Navy Way and Wall Street. While the site historically has been utilized for intermittent storage of containers, K-rail, and miscellaneous construction parts, the site is currently vacant. The site the Proposed ILWU Project would be developed on is surrounded to the north, west, and south west by the active Pier 400 Container Terminal.

Proposed ILWU Project components include the construction and operation of a cargo handling equipment maintenance-and-repair training center. Structures to be installed on the site include a 20,000 sf pre-fabricated metal building, two pre-fabricated classrooms, and a pre-fabricated restroom. A personal vehicle parking lot will be designated as well. Minor landscaping may also be installed. Training operations would include the maintenance and repair of cargo handling equipment, including hands-on repair of 20' and 40' chassis, semi-tractors/utility tractor rigs, forklifts, heavy-lifts, top-picks, and side-picks, and classroom-based education. A LAHD Real Estate Entitlement valid for 10 years upon issuance would be considered by the Board of Harbor Commissioners allowing PMA to construct and operate of the Proposed ILWU Project.

3.1 Construction

As the project site is currently vacant, the site would require alterations for operation as a training facility. Structures to be installed on the project site include a 20,000 sf pre-fabricated metal building, two pre-fabricated classrooms, and a pre-fabricated restroom. A personal vehicle parking lot will be designated as well. Landscaping may be installed on the perimeter of the 20,000 sf metal building.

Connection to basic utilities would be required for the proposed project, including water, electrical, sewer, and storm drain. Chain-link or k-rail fencing would be installed as needed around the property. Lighting would be installed on and within buildings, and on the perimeter of the site as needed. Required equipment for construction includes an excavator, bulldozer, compactor, grade-all, mobile crane, concrete trucks, and dump trucks. It is anticipated that a total of 100 one-way truck trips would be required for construction activities.

The metal building will be installed within a traditional building foundation. Excavation, trenching, grading, and compaction activities will be conducted to prepare and site for training operations and installation of the 20,000 pre-fabricated building. Pile driving activities may occur to support the foundation of the pre-fabricated building. Existing concrete that would be removed to install the foundation will be taken for disposal off-site. Soil will be tested to ensure compliance with building requirements. If removal of soil is required, in-fill soil will be brought on-site. Geotechnical investigations would be conducted as necessary to assess the site prior to excavation or other in-ground activities. The metal building will be connected to water and electricity. Connection to electricity will be achieved by trenching and boring activities.

Operation of the proposed project would require placement of two classrooms. Placement would not require installation of a foundation – the pre-fabricated buildings will be placed directly on the ground. The buildings will have lighting and ventilation. The restroom will not require installation a foundation, and will be connected to a wastewater tank.

Proper stormwater drainage would be installed on-site. This would be achieved by trenching to existing catch basins located onsite. All stormwater would be treated per Industrial General Permit requirements.

Construction of the project is anticipated six months, broken down by the following:

- 1 month for site demolition grading
- 1 month for laying foundations
- 3 months for installation
- 1 month for finishing

3.2 Operation

Upon issuance of a 10-year LAHD Real Estate entitlement, PMA would operate the site as a training facility for ILWU workers. Training operations would include the maintenance and repair of cargo handling equipment, including but not limited to 20 foot (‘) and 40’ chassis, semi-tractors/UTRs, forklifts, heavy-lifts, top-picks, and side-picks. Alternate-fuel vehicles may be eventually introduced to training activities. All repair and maintenance activities would be conducted in a 20,000 square foot (sf) pre-fabricated metal building. Additional practical training will be conducted in two 20’ by 42’ pre-fabricated classrooms. For training purposes, training fluids will be stored in above ground storage tanks or drums. Fluids include hydraulic fluid, diesel fuel, propane tanks, and acetylene tanks. Training operations would be performed Monday through Friday, 8AM through 5PM. Approximately 20 individuals will be trained each working day.

The objectives of the ILWU Training Center are the following:

- construct and operate an approximately 20,000 sf modular building, two modular classrooms, restroom facilities, and associated parking to support training operations;
- provide ILWU longshore workers with basic mechanical training introduced through both classroom education and hands-on experience to prepare and assist those workers to meet modernization of the container shipping industry;
- ensure long-term availability of labor needed to handle the flow of cargo in the Ports of Los Angeles and Long Beach; and
- consideration by the Board of Harbor Commissioners of a LAHD Real Estate Entitlement valid for 10 years to PMA for the construction and operation of the ILWU Training Center.

4. Purpose

This Addendum has been prepared in accordance with the requirements of the CEQA (Public Resources Code [PRC] 21000 et seq.), and the State CEQA Guidelines (California Code of Regulation Title 14, Section 15000 et seq.) and focuses on changes to the original project description from the Final EIR and any changes to impacts that would occur as a result of the Proposed ILWU Project. The scope of analysis contained within this Addendum addresses all environmental resource areas.

Pursuant to State CEQA Guidelines Section 15164, this analysis has determined that none of the conditions set forth in CEQA Guidelines Section 15162 calling for the preparation of a subsequent EIS/EIR or negative declaration have occurred. There are no new significant environmental effects and no substantial increase in the severity of previously identified significant effects as a result of the Proposed ILWU Project. There are no known mitigation measures or alternatives that were previously considered infeasible but are now considered feasible that would substantially reduce one or more significant effects on the environment previously identified in the EIR. Therefore, neither a subsequent EIR nor subsequent negative declaration, as defined under CEQA Section 15162, is required. An Addendum to the Final EIR, as permitted under Section 15164, is appropriate.

An Addendum need not be circulated for public review but can be included in or attached to the adopted Final EIR. The decision-making body considers the Addendum prior to making a decision on the project along with the previously adopted EIR.

Specifically, Section 15162 of the State CEQA Guidelines states that, for a project covered by a certified EIR or adopted negative declaration, no subsequent EIR or negative declaration shall be prepared for that project unless the Lead Agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:

- 1) Substantial changes are proposed in the project that will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- 2) Substantial changes occur with respect to the circumstances under which the project is undertaken that will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- 3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR, was certified as complete or the negative declaration was adopted, shows any of the following:
 - a. The project will have one or more significant effects not discussed in the previous EIR or negative declaration;
 - b. Significant effects previously examined will be substantially more severe than shown in the previous EIR or negative declaration;
 - c. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
 - d. Mitigation measures or alternatives that are considerably different from those analyzed in the previous EIR or negative declaration would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

5. Scope and Content

This Addendum describes all of the affected environmental resources and evaluates the changes in the impacts that were previously described in the Final EIR.

For purposes of determining whether new or substantially more severe “significant effects” would occur under CEQA Guidelines Section 15162, the criteria for determining whether environmental effects would be significant in this analysis are the same as the significance thresholds contained within the adopted EIR.

The analysis in this Addendum focuses on the changes to the impacts that would occur as a result of the Proposed ILWU Project. The following resource topics were evaluated in the preparation of the EIR. However, the CEQA Guidelines Checklist have been revised since the adoption of the Final EIR in 1999. This Addendum will reflect the updated subsections of Section 8 below, Environmental Analysis.

As such, the following resource areas have been re-evaluated as part of this Addendum:

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology/Soils
- Greenhouse Gas Emissions
- Hazards & Hazardous Materials
- Hydrology/Water Quality
- Land Use/Planning
- Mineral Resources
- Noise
- Population/Housing
- Public Services
- Recreation
- Transportation
- Tribal Cultural Resources
- Utilities/Service Systems
- Wildfire

6. Previous Environmental Documents Incorporated by Reference

Consistent with Section 15150 of the California State CEQA Guidelines, the following documents, available for review at the Port of Los Angeles Environmental Management Division, were used in preparation of this Addendum and are incorporated herein by reference:

- Port of Los Angeles. 1992, September. Deep Draft Navigation Improvements, Los Angeles and Long Beach Harbors, San Pedro Bay, California Final Environmental Impact Statement/Environmental Impact Report (SCH No. 2020 87101408).
- Port of Los Angeles. 1999, October. Pier 400 Container Terminal and Transportation Corridor Project Final Environmental Impact Report (SCH No. 98031135)
- Port of Los Angeles. 1999, October. Pier 400 Container Terminal and Transportation Corridor Project Mitigation Monitoring and Reporting Program

7. Required Permits and Approvals

The following permits and approvals would be required for the Proposed ILWU Project:

- Los Angeles Harbor Department Entitlement
- LAHD Coastal Development Permit (CDP)
- LAHD Harbor Engineer Permit(s) (includes compliance with the City of Los Angeles Low Impact Development ordinance)
- Construction General Permit Coverage

8. Environmental Analysis

The analysis contained herein demonstrates and provides substantial evidence that no significant impacts are present, nor would the severity of other impact areas be increased by the Proposed ILWU Project.

Below is a discussion of all resource areas analyzed in the Final EIR and a discussion of why the impact determinations made in the Final EIR would not be affected by the Proposed ILWU Project.

The Final EIR generated comprehensive MMRP for the Project. Mitigation Measures (MM) generated for the Pier 400 Project would be included in the Proposed ILWU Project as applicable and feasible. Some MM have been specifically mentioned in the resource areas described below, but are not indicative of all MM that may apply to each resource area.

8.1 Aesthetics

The Proposed ILWU Project includes the installation of four pre-fabricated buildings, which would be consistent with the existing aesthetic industrial nature of the Port. The Project site is located on Terminal Island within the working Port environment, which is highly developed and characterized by industrial and cargo uses. Maintenance and repair of cargo handling equipment would be similar in nature to the existing visual landscape and would visually blend into the panorama of the working Port uses and activities. Additionally, lighting installed would be diverted away from water to reduce glare impacts. The Proposed ILWU Project development and operational components would be similar in nature to the overall aesthetics of the Pier 400 Container Terminal and larger Port complex, and there would be no significant impacts related to the existing visual character and quality of the site. Therefore, there would continue to be no impacts related to the existing visual character and quality of the site relative to the Final EIR project build-out.

8.2 Agriculture and Forestry Resources

The Proposed ILWU Project would not have any impact on Agriculture and Forestry resources as the project area is not located in any area zoned for agricultural use and does not change the existing use of the surrounding area in any way. Therefore, there would be no impacts agriculture and forestry resources.

8.3 Air Quality

The Final EIR assessed emissions produced by the development of a container terminal and transportation corridor on the Pier 400 Landfill. This Addendum assesses the construction and development of a cargo handling equipment maintenance-and-repair training center, which are similar to the terminal supporting-activities assessed in the Final EIR. Construction activities required for the development of the training center include grading, paving, asphaltting, installation of pre-fabricated buildings, connection to utilities and stormwater drainage, landscaping, and hardscaping. Connection to basic utilities would be required for the proposed project, including water, electrical, sewer, and storm drain. Required equipment for construction includes an excavator, bulldozer, compactor, grade-all, mobile crane, concrete trucks, and dump trucks. It is anticipated that a total of 100 one-way truck trips would be required for construction activities. These construction activities would not generate a substantial new significant impact to Air Quality in accordance with South Coast Air Quality Monitoring District (SCAQMD) Significant Thresholds (Table 1; SQACMD, 2008).

Table 1. Maximum Daily Construction Emissions

	VOC (lb/day)	NOx (lb/day)	CO (lb/day)	SOx (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)
Maximum Construction Phase	25.72	1.60	9.44	0.018	2.36	1.20
SCAQMD Mass Daily Thresholds	75	100	550	150	150	55
Significant?	No	No	No	No	No	No

Note: Emissions were estimated by CalEEMod.2020.4.0 using 2022 emission factors.

Further, the operation of a maintenance-and-repair training center would generate minimal air emissions that are not a substantial new significant impact to Air Quality in accordance with SCAQMD Significant Thresholds (Table 2; SCAQMD, 2008). In addition to operational emissions produced by trucks delivering cargo handling equipment to and from the training center project site, emissions produced by construction and operations of the training center would be less than what was in the Final EIR, which assessed the construction and operation of a 345-acre container terminal with full rail, highway, and utility access.

Table 2. Maximum Daily Operational Emissions

	VOC (lb/day)	NOx (lb/day)	CO (lb/day)	SOx (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)
Total	0.68	0.38	2.43	0.006	0.53	0.15
SCAQMD Mass Daily Thresholds	55	55	550	150	150	55
Significant?	No	No	No	No	No	No

Note: Emissions were estimated by CalEEMod.2020.4.0 using 2022 emission factors.

Any Proposed ILWU Project construction activity would adhere to applicable Mitigation Measures that were produced for the Final EIR, as applicable. Further, the development and construction of a cargo handling equipment maintenance-and-repair training center would support the following Mitigation Measure drafted for the Final EIR: “Properly tune and maintain all construction equipment”. The ultimate goal of the training center moving forwards maintenance and repair of zero and near-zero equipment is also compliant with the following Mitigation Measures drafted for the Final EIR: “Encourage the use of clean fuels, electric power”.

Due to a negligible increase in equipment, truck trips, and emissions relative to what was assessed in the Final EIR, and continued adherence to any applicable existing MM from the Final EIR’s MMRP, the Proposed ILWU Project would create no new substantial impacts to air quality than what was assessed in the Final EIR.

8.4 Biological Resources

Construction and operational activities proposed in the Final EIR are similar to those in the Proposed ILWU Project, including pile driving activities to provide structural support for the 20,000 sf building. As such, the Proposed ILWU Project would not cause any change in impact determinations from the Final EIR. While a location assessed in the Final EIR contains nesting habitat designated for the California least tern, the Proposed ILWU Project site is located over 4,500 feet from the foraging and nesting habitat. The site does not contain habitat suitable to support wildlife. The Proposed ILWU Project site will remain fully paved and nor contain suitable habitat to support wildlife.

The Proposed ILWU Project will continue to adhere to existing and applicable MM generated for the Final

EIR, such as "Unless otherwise approved by the [CDFW] and USFWS, no impact pile driving shall be allowed along the access corridor during the April to September breeding season of the California least tern", "Provide training and educational materials on endangered, threatened, and protected species to the construction workers in the area of Pier 400", and "Discontinue construction activities whenever a bird's nest is discovered during the least tern's nesting season (April to September) until cleared in consultation with the California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Services (USFWS)". Adherence to the aforementioned and any other applicable MM would ensure that any potentially significant impacts created as a result of construction or operation of the Proposed ILWU Project are mitigated to less than significant. Therefore, the Proposed ILWU Project would create no new substantial impacts to biological resources beyond what was assessed in the Final EIR.

8.5 Cultural Resources

No eligible or listed historic resources have been recorded within the Proposed ILWU Project area. Additionally, the premises has been highly disturbed and located on the Pier 400 landfill, which is an artificial landform composed of construction fill. Subsequently, there is low potential for discovering archaeological or ethnographic cultural resources. Further, ground disturbing activities within the Final EIR are similar in nature to those in the Proposed ILWU Project. Therefore, the Proposed ILWU Project would create no new substantial impacts to cultural resources beyond what was assessed in the Final EIR.

8.6 Energy

The Proposed ILWU Project construction activities include grading, paving, asphaltting, installation of pre-fabricated buildings, connection to utilities and stormwater drainage, landscaping, and hardscaping. The operation of an excavator, bulldozer, compactor, grade-all, mobile crane, concrete trucks, and dump trucks would create a negligible increase in energy due to a small amount of diesel usage compared to the Pier 400 Container Terminal project. The Final EIR assessed an increase in energy draw associated with the construction and operation of a 345-acre container terminal. The Proposed ILWU Project would be a negligible increase to the operations of the container terminal, as they include education and training for a limited number of ILWU workers.

The POLA Development Bureau (Construction and Engineering Divisions) is responsible for design, inspection, management, and oversight of construction projects to ensure projects comply with energy efficiency requirements. All building installations would be installed in accordance with energy efficiency requirements, and energy consumption during construction activities would be used efficiently and would represent a negligible portion of state-wide energy consumption. Therefore, Proposed ILWU Project impacts to energy plans would create no new substantial impacts beyond what was assessed in the Final EIR.

8.7 Geology/Soils

The Project site is located within a seismically active region with several active fault lines, including the Palos Verdes Fault Zone. The Palos Verdes Fault Zone traverses the Port in a general northwest to southeast orientation from the West Turning Basin to Pier 400 and runs through the Project site (POLA, 2018). Therefore, the Proposed ILWU Project is susceptible to potential strong seismic ground shaking. The Proposed ILWU Project includes the installation of four pre-fabricated buildings. All buildings would be installed in accordance with Los Angeles Building Code structural design requirements, and in accordance with California Building Code seismic requirements, to ensure that during event of surface rupture, seismic event or soil liquefaction, the risk of loss, injury, or death would be minimal. Additionally, construction and operational activities proposed in the Proposed ILWU Project are similar in nature to those in the Final EIR. Therefore, the Proposed ILWU Project impacts to geology and soils would create no new substantial impacts beyond what was assessed in the Final EIR.

8.8 Greenhouse Gas Emissions

As discussed in Section 8.3, the Proposed ILWU Project would not create a substantial increase in air emissions compared to what was previously evaluated in the Final EIR. Construction of the Proposed ILWU Project includes grading, paving, asphaltting, installation of pre-fabricated buildings, connection to utilities and stormwater drainage, landscaping, and hardscaping. This minor construction component would result in no substantial significant greenhouse gas (GHG) emissions in accordance with SCAQMD Significance Thresholds (Table 3; SCAQMD, 2008), and would be negligible compared to those disclosed during the peak daily emission activities in the Final EIR. Additionally, to support cargo handling equipment repair and maintenance training, the Proposed ILWU Project would require the temporary use of an excavator, bulldozer, compactor, grade-all, mobile crane, concrete trucks, and dump trucks for construction activities, which would only create a negligible increase in energy due to a small amount of diesel usage compared to the Final EIR, which assessed the construction and operation of a 345-acre container terminal.

Table 3. Annual Project GHG Emissions

Source	CO2 (MT/yr)	CH4 (MT/yr)	N2O (MT/yr)	CO2e (MT/yr)
Subtotal, Operation	185.5	0.49	0.0071	200.0
Amortized Construction ^[1]	4.0	0.00	0.0001	4.0
Total Project	189.5	0.49	0.0073	204.0
SCAQMD GHG Threshold	--	--	--	10,000
Significant?	--	--	--	No

Note: Emissions were estimated by CalEEMod.2020.4.0 using 2022 emission factors.
Values may not add up due to rounding.

^[1] The LAHD Real Estate Entitlement permit would be valid for 10 years; therefore, construction emissions were amortized over 10 years.

Construction and operation of the 4-acre training center would create a negligible increase to GHG due to a de minimis amount of emissions in relation to the emissions assessed as a result of construction and operation of the 345-acre container terminal. Further, the proposed ILWU Project would conform to state and local GHG emissions/climate change regulations, policies, and strategies. Therefore, the Proposed ILWU Project GHG emissions would create no new substantial impacts beyond what was assessed in the Final EIR.

8.9 Hazards & Hazardous Materials

The Proposed ILWU Project would include the storage of hazardous materials on the project site, including hydraulic fluid, diesel fuel, propane tanks, and acetylene tanks. These liquids would be used for fueling, maintenance, and repair of cargo handling equipment. The project site is paved in whole, and would remain paved after completion of construction activities. Pavement would prevent the infiltration of hazardous materials in the event of a spill. All hazardous materials would be stored in paved and bermed locations to contain hazardous materials in the event of a spill. Storage and handling of hazardous materials is minor relative to the quantity of hazardous materials handled as part of construction and operation of the Pier 400 Terminal, which was assessed in the Final EIR. Therefore, the Proposed ILWU Project impacts to hazards and hazardous materials would create no new substantial impacts beyond what was assessed in the Final EIR.

8.10 Hydrology/Water Quality

The Proposed ILWU Project would not violate any water quality standards or waste discharge requirements. The Proposed ILWU Project construction and operation would adhere to all required laws and regulation, and thereby would operate in a manner which prevents violation of water quality standards or waste discharge requirements. Areas that add or modify any impermeable surface will comply with the Low Impact Development (LID) Ordinance as required. Any run-off sourced from the project site would adhere to the Stormwater Pollution Prevention Plan, Construction General Permit, LID and any other required law and regulation. Further, any impacts to hydrology or water quality as a result of the Proposed ILWU Project would be negligible relative to what was assessed within the construction and operation of the Pier 400 Container Terminal. Therefore, the Proposed ILWU Project would create no new substantial impacts to hydrology and water quality beyond what was assessed in the Final EIR.

8.11 Land Use/Planning

The Proposed ILWU Project would not cause a physical divide to an established community, as the operation of container use on this land would not cause a disruption of access between land use types. Additionally, the Proposed ILWU Project would not conflict with any plan, policy, or regulation, as the site is consistent with City zoning and the Port Master Plan's land use designation of Container use. Furthermore, this area is not located within any habitat conservation plan or natural community conservation plan. Therefore, the Proposed ILWU Project would create no new substantial impacts to land use and planning beyond what was assessed in the Final EIR.

8.12 Mineral Resources

There are no known mineral resources near the Proposed ILWU Project that would be impacted. The proposed project site is located within any Mineral Resource Zone (MRZ) that indicates no significant mineral deposits are present or where it is judged that little likelihood exists for their presence. The Pier 400 Container Terminal exists within the same MRZ as the Proposed ILWU Project that determines there is little likelihood for a mineral resource to exist. Therefore, the Proposed ILWU Project would create no new substantial impacts to mineral resources beyond what was assessed in the Final EIR.

8.13 Noise

Construction and operational activities proposed in the Final EIR are similar in nature to those in the Proposed ILWU Project. The Proposed ILWU Project would include the operation of an excavator, bulldozer, compactor, grade-all, mobile crane, concrete trucks, and dump trucks for construction of the center. It is possible pile driving equipment may be operated as part of construction of the 20,000 sf building's foundation. The Proposed ILWU Project would also include operation of cargo handling equipment for training operations. This equipment is not anticipated to create significant impacts to noise since the environmental setting includes sources of noise typical of an industrialized port environment. Also, the Proposed ILWU Project's equipment is consistent with the equipment assessed in the Final EIR. Within this context, temporary construction activities and operation of small numbers of cargo handling equipment consistent with the original analysis and would not result in any new impacts to noise that were not previously disclosed in the Final EIR.

The nearest potential residential receptors are located over 1,500 feet from the project site, with many intervening structures between the residential receptors and the project site. Accordingly, no increase in noise at the nearest sensitive receptors would occur due to distance from the noise receptors and consistency with the existing noise portfolio. Therefore, the Proposed ILWU Project would create no new substantial impacts to noise beyond what was assessed in the Final EIR.

8.14 Population/Housing

The Proposed ILWU Project would not induce population growth, displacement of existing housing, or displacement of a substantial number of people. Construction activities required for the proposed project would be short term in nature and not require workers to move the Proposed ILWU Project area to complete the project. Further, the development of a cargo handling equipment maintenance-and-repair training center is not intended to create new commercial opportunities that would induce local population

growth. Therefore, the Proposed ILWU Project would create no new substantial impacts to population and housing beyond what was assessed in the Final EIR.

8.15 Public Services

The Proposed ILWU Project would not result in any additional impacts to the performance of fire protection, police protection, schools, parks, or other public facilities than what is already required to service the Pier 400 Terminal. Additionally, Station 36 of the Los Angeles Fire Department, which was not built at the time of preparation of the Final EIR, is now open and operational and therefore provides additional fire safety protection to the Pier 400 area. Therefore, the Proposed ILWU Project would create no new substantial impacts to public services beyond what was assessed in the Final EIR.

8.16 Recreation

The Proposed ILWU Project would not increase demand on existing recreational facilities nor require the construction of new recreational facilities. The training center is focused on training ILWU workers, and is not intended for recreational use. Similarly, the Pier 400 Container Terminal that was assessed in the Final EIR was not built or assessed for recreational use. Therefore, the Proposed ILWU Project would create no new substantial impacts to recreation beyond what was assessed in the Final EIR.

8.17 Transportation

The Proposed ILWU Project would generate 100 one-way additional truck trips per day during construction, which is negligible in relation to the large number of truck trips required for the construction of the Pier 400 container terminal. The Proposed ILWU Project is anticipated to generate an increase of approximately 60 one-way passenger vehicle trips to the site per day, Monday through Friday. The increase of 60 additional one-way passenger vehicle trips is negligible compared to the passenger trips currently produced by the Pier 400 Container Terminal. The Los Angeles Department of Transportation's (LADOT's) guidelines state that a Vehicle Miles Travelled (VMT) analysis is not required if a project generates less than 250 daily trips, and a less than significant impact determination can be made for the project (LADOT, 2020). Therefore, the Proposed ILWU Project would have a less than significant impact to transportation, and would create no new substantial impacts to transportation beyond what was assessed in the Final EIR.

8.18 Tribal Cultural Resources

Due to extensive ground disturbance and existing fill on the Proposed ILWU Project site, there is low potential for discovering archaeological or ethnographic cultural resources. All construction activity associated with the Proposed ILWU Project would adhere to existing applicable laws and regulations in the unlikely event that any potential tribal cultural resources be discovered. Therefore, the Proposed ILWU Project would create no new substantial impacts to tribal cultural resources beyond what was assessed in the Final EIR.

8.19 Utilities/Service Systems

The Proposed ILWU Project would require connection to existing stormwater drainage, electric power, and wastewater facilities. The site would be served by utilities that currently service the Pier 400 Container Terminal. Any demand on the existing stormwater drainage system, electricity, and wastewater generated by the construction and operation of a 4-acre training facility would be negligible in comparison to what was assessed for the construction and operation of the 345-acre Pier 400 Container Terminal, which are fully supported by existing systems. The Proposed ILWU Project would not require the construction of an additional utility facilities to serve the training center. Therefore, the Proposed ILWU Project would create no new substantial impacts to utilities and service systems beyond what was assessed in the Final EIR.

8.20 Wildfire

Public Resources Code Sections 4201-4204 direct the California Department of Forestry and Fire Protection to map fire hazard based on relevant factors such as fuels, terrain, and weather. The Port is not located in or near a state responsibility area or lands classified as a Very High Fire Severity Zone within its Local Responsibility Area (LAFD, 2021). Therefore, the Project site is not located in or near State responsibility areas or lands classified as very high fire hazard severity zones. Therefore, the Proposed ILWU Project would create no new substantial impacts to wildfire beyond what was assessed in the Final EIR.

9. Conclusions

The Addendum for the ILWU Training Center assesses the construction and operation of a training center to be located at the elbow of Pier 400, which would include entitlement to develop and operate a 4-acre site. Construction activities would include the installation of a 20,000 sf pre-fabricated metal building, two pre-fabricated classrooms, and associated development of the site. None of the conditions as described under Section 15162 of the State CEQA Guidelines requiring a subsequent EIR or ND have occurred under the Proposed ILWU Project. No substantial changes to impact areas previously analyzed in the Final EIR would occur as a result of the Proposed ILWU Project. For these reasons, the proposed modifications would create no potential adverse impacts or substantial changes to impact areas previously analyzed in the Final EIR.

10. References

- LADOT (Los Angeles Department of Transportation). 2020. Transportation Assessment Guidelines. July. [Online]: https://ladot.lacity.org/sites/default/files/documents/2020-transportation-assessment-guidelines_final_2020.07.27.pdf . Accessed January 18, 2022.
- LAFD (Los Angeles Fire Department). 2021. Fire Zone Map. [Online]: <https://www.lafd.org/fire-prevention/brush/fire-zone/fire-zone-map>. Accessed December 7, 2021.
- SCAQMD (South Coast Air Quality Management District). 2008. Attachment E: Draft Guidance Document, Interim CEQA Greenhouse Gas Significance Threshold. October. [Online]: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>. Accessed January 18, 2022.

Appendix A

Air Calculations

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Pier 400 ILWU Training Center
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	20.00	1000sqft	0.64	20,000.00	0
Junior College (2yr)	2.16	1000sqft	0.05	2,160.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Adjusted lot acreage to sum to 0.69 to get the correct grading usage.

Construction Phase - Adjust phase durations to sum to 6 months.

Off-road Equipment - Port-supplied equipment list.

Off-road Equipment - Port-supplied equipment list.

Off-road Equipment - Port-supplied equipment list.

Off-road Equipment -

Grading - Site Acreage was adjusted to equal 0.69 acres, which results in the total acres graded to be 1.5 acres due to multiple passes (determined by CalEEMod).

Demolition -

Trips and VMT - Grading haul truck trips set to zero because there would be no soil import or export.

Architectural Coating - Interior VOC is 50 g/L per SCAQMD Rule 1113.

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Trips - Adjust to force weekday trips to equal 44 one way trips. No Sat or Sun trips. Set all trips to commercial-work (C-W) trips.

Area Coating - Interior is 50 g/L per SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation - Assume all equipment meets Tier 4 Final.

Area Mitigation - Non-residential interior paint will be 50 g/L per SCAQMD Rule 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	100.00	104.00
tblConstructionPhase	NumDays	10.00	18.00
tblConstructionPhase	NumDays	2.00	4.00
tblConstructionPhase	PhaseEndDate	10/12/2022	10/24/2022
tblConstructionPhase	PhaseEndDate	9/28/2022	10/17/2022
tblConstructionPhase	PhaseEndDate	5/6/2022	5/18/2022

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	PhaseEndDate	5/11/2022	5/24/2022
tblConstructionPhase	PhaseStartDate	10/6/2022	10/18/2022
tblConstructionPhase	PhaseStartDate	5/12/2022	5/25/2022
tblConstructionPhase	PhaseStartDate	5/10/2022	5/19/2022
tblGrading	AcresOfGrading	3.00	1.50
tblGrading	MaterialExported	0.00	422.00
tblGrading	MaterialImported	0.00	422.00
tblLandUse	LotAcreage	0.46	0.64
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	106.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	88.60	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	6.40	100.00
tblVehicleTrips	ST_TR	1.99	0.00
tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	SU_TR	5.00	0.00
tblVehicleTrips	SU_TR	1.21	0.00

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	WD_TR	4.96	2.20
tblVehicleTrips	WD_TR	20.25	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0865	0.2282	0.1732	4.4000e-004	0.0321	9.9800e-003	0.0421	9.4100e-003	9.2000e-003	0.0186	0.0000	39.8119	39.8119	9.0300e-003	1.3400e-003	40.4362
Maximum	0.0865	0.2282	0.1732	4.4000e-004	0.0321	9.9800e-003	0.0421	9.4100e-003	9.2000e-003	0.0186	0.0000	39.8119	39.8119	9.0300e-003	1.3400e-003	40.4362

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0705	0.0399	0.2014	4.4000e-004	0.0190	7.2000e-004	0.0197	5.4700e-003	7.1000e-004	6.1800e-003	0.0000	39.8119	39.8119	9.0300e-003	1.3400e-003	40.4362
Maximum	0.0705	0.0399	0.2014	4.4000e-004	0.0190	7.2000e-004	0.0197	5.4700e-003	7.1000e-004	6.1800e-003	0.0000	39.8119	39.8119	9.0300e-003	1.3400e-003	40.4362

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	18.53	82.52	-16.27	0.00	40.75	92.79	53.09	41.87	92.28	66.81	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-25-2022	7-24-2022	0.1422	0.0282
2	7-25-2022	9-30-2022	0.0829	0.0127
		Highest	0.1422	0.0282

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0865	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Energy	2.2500e-003	0.0205	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	97.0033	97.0033	3.9900e-003	8.4000e-004	97.3535
Mobile	0.0243	0.0358	0.2954	6.6000e-004	0.0665	5.5000e-004	0.0671	0.0178	5.2000e-004	0.0183	0.0000	61.4992	61.4992	3.8000e-003	2.5400e-003	62.3508
Waste						0.0000	0.0000		0.0000	0.0000	5.6046	0.0000	5.6046	0.3312	0.0000	13.8851
Water						0.0000	0.0000		0.0000	0.0000	1.5009	19.9132	21.4141	0.1551	3.7600e-003	26.4108
Total	0.1130	0.0562	0.3128	7.8000e-004	0.0665	2.1000e-003	0.0686	0.0178	2.0700e-003	0.0198	7.1055	178.4163	185.5218	0.4941	7.1400e-003	200.0008

Mitigated Operational

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0865	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Energy	2.2500e-003	0.0205	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	97.0033	97.0033	3.9900e-003	8.4000e-004	97.3535
Mobile	0.0243	0.0358	0.2954	6.6000e-004	0.0665	5.5000e-004	0.0671	0.0178	5.2000e-004	0.0183	0.0000	61.4992	61.4992	3.8000e-003	2.5400e-003	62.3508
Waste						0.0000	0.0000		0.0000	0.0000	5.6046	0.0000	5.6046	0.3312	0.0000	13.8851
Water						0.0000	0.0000		0.0000	0.0000	1.5009	19.9132	21.4141	0.1551	3.7600e-003	26.4108
Total	0.1130	0.0562	0.3128	7.8000e-004	0.0665	2.1000e-003	0.0686	0.0178	2.0700e-003	0.0198	7.1055	178.4163	185.5218	0.4941	7.1400e-003	200.0008

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/25/2022	5/18/2022	5	18	
2	Grading	Grading	5/19/2022	5/24/2022	5	4	
3	Building Construction	Building Construction	5/25/2022	10/17/2022	5	104	
4	Architectural Coating	Architectural Coating	10/18/2022	10/24/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,240; Non-Residential Outdoor: 11,080; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41
Grading	Excavators	1	8.00	158	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	5.00	0.00	129.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	2	9.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0139	0.0000	0.0139	2.1100e-003	0.0000	2.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7700e-003	0.0260	0.0335	6.0000e-005		1.2500e-003	1.2500e-003		1.1500e-003	1.1500e-003	0.0000	4.9469	4.9469	1.6000e-003	0.0000	4.9869
Total	2.7700e-003	0.0260	0.0335	6.0000e-005	0.0139	1.2500e-003	0.0152	2.1100e-003	1.1500e-003	3.2600e-003	0.0000	4.9469	4.9469	1.6000e-003	0.0000	4.9869

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	0.0114	2.5400e-003	4.0000e-005	1.1100e-003	8.0000e-005	1.1900e-003	3.0000e-004	8.0000e-005	3.8000e-004	0.0000	3.9839	3.9839	2.1000e-004	6.3000e-004	4.1776
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.3000e-004	1.6700e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4082	0.4082	1.0000e-005	1.0000e-005	0.4118
Total	4.5000e-004	0.0115	4.2100e-003	4.0000e-005	1.6000e-003	8.0000e-005	1.6900e-003	4.3000e-004	8.0000e-005	5.1000e-004	0.0000	4.3921	4.3921	2.2000e-004	6.4000e-004	4.5894

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.2600e-003	0.0000	6.2600e-003	9.5000e-004	0.0000	9.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-004	3.0000e-003	0.0398	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	4.9469	4.9469	1.6000e-003	0.0000	4.9869
Total	6.9000e-004	3.0000e-003	0.0398	6.0000e-005	6.2600e-003	9.0000e-005	6.3500e-003	9.5000e-004	9.0000e-005	1.0400e-003	0.0000	4.9469	4.9469	1.6000e-003	0.0000	4.9869

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	0.0114	2.5400e-003	4.0000e-005	1.1100e-003	8.0000e-005	1.1900e-003	3.0000e-004	8.0000e-005	3.8000e-004	0.0000	3.9839	3.9839	2.1000e-004	6.3000e-004	4.1776
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.3000e-004	1.6700e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4082	0.4082	1.0000e-005	1.0000e-005	0.4118
Total	4.5000e-004	0.0115	4.2100e-003	4.0000e-005	1.6000e-003	8.0000e-005	1.6900e-003	4.3000e-004	8.0000e-005	5.1000e-004	0.0000	4.3921	4.3921	2.2000e-004	6.4000e-004	4.5894

3.3 Grading - 2022

Unmitigated Construction On-Site

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8800e-003	0.0000	9.8800e-003	5.0600e-003	0.0000	5.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3700e-003	0.0252	0.0149	3.0000e-005		1.0700e-003	1.0700e-003		9.9000e-004	9.9000e-004	0.0000	2.9724	2.9724	9.5000e-004	0.0000	2.9960
Total	2.3700e-003	0.0252	0.0149	3.0000e-005	9.8800e-003	1.0700e-003	0.0110	5.0600e-003	9.9000e-004	6.0500e-003	0.0000	2.9724	2.9724	9.5000e-004	0.0000	2.9960

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	7.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1814	0.1814	1.0000e-005	0.0000	0.1830
Total	7.0000e-005	6.0000e-005	7.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1814	0.1814	1.0000e-005	0.0000	0.1830

Mitigated Construction On-Site

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.4400e-003	0.0000	4.4400e-003	2.2800e-003	0.0000	2.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-004	1.7600e-003	0.0181	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.9724	2.9724	9.5000e-004	0.0000	2.9960
Total	4.1000e-004	1.7600e-003	0.0181	3.0000e-005	4.4400e-003	5.0000e-005	4.4900e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	2.9724	2.9724	9.5000e-004	0.0000	2.9960

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	7.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1814	0.1814	1.0000e-005	0.0000	0.1830
Total	7.0000e-005	6.0000e-005	7.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1814	0.1814	1.0000e-005	0.0000	0.1830

3.4 Building Construction - 2022

Unmitigated Construction On-Site

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0141	0.1499	0.0942	2.1000e-004		7.2400e-003	7.2400e-003		6.6600e-003	6.6600e-003	0.0000	18.4184	18.4184	5.9600e-003	0.0000	18.5673
Total	0.0141	0.1499	0.0942	2.1000e-004		7.2400e-003	7.2400e-003		6.6600e-003	6.6600e-003	0.0000	18.4184	18.4184	5.9600e-003	0.0000	18.5673

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	0.0107	3.5500e-003	4.0000e-005	1.3100e-003	1.0000e-004	1.4100e-003	3.8000e-004	9.0000e-005	4.7000e-004	0.0000	3.9719	3.9719	1.3000e-004	5.7000e-004	4.1460
Worker	1.6000e-003	1.3400e-003	0.0174	5.0000e-005	5.1300e-003	3.0000e-005	5.1600e-003	1.3600e-003	3.0000e-005	1.3900e-003	0.0000	4.2451	4.2451	1.2000e-004	1.2000e-004	4.2825
Total	2.0100e-003	0.0120	0.0209	9.0000e-005	6.4400e-003	1.3000e-004	6.5700e-003	1.7400e-003	1.2000e-004	1.8600e-003	0.0000	8.2170	8.2170	2.5000e-004	6.9000e-004	8.4285

Mitigated Construction On-Site

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5800e-003	0.0112	0.1129	2.1000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	18.4184	18.4184	5.9600e-003	0.0000	18.5673
Total	2.5800e-003	0.0112	0.1129	2.1000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	18.4184	18.4184	5.9600e-003	0.0000	18.5673

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	0.0107	3.5500e-003	4.0000e-005	1.3100e-003	1.0000e-004	1.4100e-003	3.8000e-004	9.0000e-005	4.7000e-004	0.0000	3.9719	3.9719	1.3000e-004	6.7000e-004	4.1460
Worker	1.6000e-003	1.3400e-003	0.0174	5.0000e-005	5.1300e-003	3.0000e-005	5.1600e-003	1.3600e-003	3.0000e-005	1.3900e-003	0.0000	4.2451	4.2451	1.2000e-004	1.2000e-004	4.2825
Total	2.0100e-003	0.0120	0.0209	9.0000e-005	6.4400e-003	1.3000e-004	6.5700e-003	1.7400e-003	1.2000e-004	1.8600e-003	0.0000	8.2170	8.2170	2.5000e-004	6.9000e-004	8.4285

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr								MT/yr							
Archit. Coating	0.0642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	5.1000e-004	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	0.0647	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.9000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0454	0.0454	0.0000	0.0000	0.0458
Total	2.0000e-005	1.0000e-005	1.9000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0454	0.0454	0.0000	0.0000	0.0458

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Archit. Coating	0.0642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-005	3.2000e-004	4.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	0.0643	3.2000e-004	4.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.9000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0454	0.0454	0.0000	0.0000	0.0458
Total	2.0000e-005	1.0000e-005	1.9000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0454	0.0454	0.0000	0.0000	0.0458

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0243	0.0358	0.2954	6.6000e-004	0.0665	5.5000e-004	0.0671	0.0178	5.2000e-004	0.0183	0.0000	61.4992	61.4992	3.8000e-003	2.5400e-003	62.3508
Unmitigated	0.0243	0.0358	0.2954	6.6000e-004	0.0665	5.5000e-004	0.0671	0.0178	5.2000e-004	0.0183	0.0000	61.4992	61.4992	3.8000e-003	2.5400e-003	62.3508

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	44.00	0.00	0.00	177,120	177,120
Junior College (2yr)	0.00	0.00	0.00		
Total	44.00	0.00	0.00	177,120	177,120

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	100.00	0.00	0.00	92	5	3
Junior College (2yr)	16.60	8.40	6.90	100.00	0.00	0.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Junior College (2yr)	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	74.7436	74.7436	3.5600e-003	4.3000e-004	74.9615
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	74.7436	74.7436	3.5600e-003	4.3000e-004	74.9615
NaturalGas Mitigated	2.2500e-003	0.0205	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.2597	22.2597	4.3000e-004	4.1000e-004	22.3920
NaturalGas Unmitigated	2.2500e-003	0.0205	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.2597	22.2597	4.3000e-004	4.1000e-004	22.3920

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	359200	1.9400e-003	0.0176	0.0148	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	19.1683	19.1683	3.7000e-004	3.5000e-004	19.2822
Junior College (2yr)	57931.2	3.1000e-004	2.8400e-003	2.3900e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0914	3.0914	6.0000e-005	6.0000e-005	3.1098
Total		2.2500e-003	0.0205	0.0172	1.3000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	22.2597	22.2597	4.3000e-004	4.1000e-004	22.3920

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	359200	1.9400e-003	0.0176	0.0148	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	19.1683	19.1683	3.7000e-004	3.5000e-004	19.2822
Junior College (2yr)	57931.2	3.1000e-004	2.8400e-003	2.3900e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0914	3.0914	6.0000e-005	6.0000e-005	3.1098
Total		2.2500e-003	0.0205	0.0172	1.3000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	22.2597	22.2597	4.3000e-004	4.1000e-004	22.3920

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	217200	68.1741	3.2500e-003	3.9000e-004	68.3728
Junior College (2yr)	20930.4	6.5696	3.1000e-004	4.0000e-005	6.5887
Total		74.7436	3.5600e-003	4.3000e-004	74.9615

Mitigated

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	217200	68.1741	3.2500e-003	3.9000e-004	68.3728
Junior College (2yr)	20930.4	6.5696	3.1000e-004	4.0000e-005	6.5887
Total		74.7436	3.5600e-003	4.3000e-004	74.9615

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0865	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Unmitigated	0.0865	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004

6.2 Area by SubCategory

Unmitigated

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	6.4200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0801					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004	
Total	0.0865	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004	

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	6.4200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0801					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004	
Total	0.0865	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004	

7.0 Water Detail

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	21.4141	0.1551	3.7600e-003	26.4108
Unmitigated	21.4141	0.1551	3.7600e-003	26.4108

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	4.625 / 0	20.3696	0.1516	3.6700e-003	25.2528
Junior College (2yr)	0.105946 / 0.16571	1.0445	3.5000e-003	9.0000e-005	1.1580
Total		21.4141	0.1551	3.7600e-003	26.4108

Mitigated

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	4.625 / 0	20.3696	0.1516	3.6700e-003	25.2528
Junior College (2yr)	0.105946 / 0.16571	1.0445	3.5000e-003	9.0000e-005	1.1580
Total		21.4141	0.1551	3.7600e-003	26.4108

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.6046	0.3312	0.0000	13.8851
Unmitigated	5.6046	0.3312	0.0000	13.8851

8.2 Waste by Land Use

Unmitigated

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	24.8	5.0342	0.2975	0.0000	12.4720
Junior College (2yr)	2.81	0.5704	0.0337	0.0000	1.4132
Total		5.6046	0.3312	0.0000	13.8851

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	24.8	5.0342	0.2975	0.0000	12.4720
Junior College (2yr)	2.81	0.5704	0.0337	0.0000	1.4132
Total		5.6046	0.3312	0.0000	13.8851

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Pier 400 ILWU Training Center
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	20.00	1000sqft	0.64	20,000.00	0
Junior College (2yr)	2.16	1000sqft	0.05	2,160.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Adjusted lot acreage to sum to 0.69 to get the correct grading usage.

Construction Phase - Adjust phase durations to sum to 6 months.

Off-road Equipment - Port-supplied equipment list.

Off-road Equipment - Port-supplied equipment list.

Off-road Equipment - Port-supplied equipment list.

Off-road Equipment -

Grading - Site Acreage was adjusted to equal 0.69 acres, which results in the total acres graded to be 1.5 acres due to multiple passes (determined by CalEEMod).

Demolition -

Trips and VMT - Grading haul truck trips set to zero because there would be no soil import or export.

Architectural Coating - Interior VOC is 50 g/L per SCAQMD Rule 1113.

Vehicle Trips - Adjust to force weekday trips to equal 44 one way trips. No Sat or Sun trips. Set all trips to commercial-work (C-W) trips.

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Area Coating - Interior is 50 g/L per SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation - Assume all equipment meets Tier 4 Final.

Area Mitigation - Non-residential interior paint will be 50 g/L per SCAQMD Rule 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	100.00	104.00
tblConstructionPhase	NumDays	10.00	18.00
tblConstructionPhase	NumDays	2.00	4.00
tblConstructionPhase	PhaseEndDate	10/12/2022	10/24/2022
tblConstructionPhase	PhaseEndDate	9/28/2022	10/17/2022
tblConstructionPhase	PhaseEndDate	5/6/2022	5/18/2022
tblConstructionPhase	PhaseEndDate	5/11/2022	5/24/2022

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	PhaseStartDate	10/6/2022	10/18/2022
tblConstructionPhase	PhaseStartDate	5/12/2022	5/25/2022
tblConstructionPhase	PhaseStartDate	5/10/2022	5/19/2022
tblGrading	AcresOfGrading	3.00	1.50
tblGrading	MaterialExported	0.00	422.00
tblGrading	MaterialImported	0.00	422.00
tblLandUse	LotAcreage	0.46	0.64
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	106.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	88.60	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	6.40	100.00
tblVehicleTrips	ST_TR	1.99	0.00
tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	SU_TR	5.00	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	4.96	2.20
tblVehicleTrips	WD_TR	20.25	0.00

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4742	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003
Energy	0.0123	0.1120	0.0941	6.7000e-004		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490
Mobile	0.1910	0.2507	2.3365	5.2600e-003	0.5220	4.2600e-003	0.5263	0.1391	3.9700e-003	0.1430		539.2207	539.2207	0.0318	0.0204	546.1058
Total	0.6775	0.3628	2.4328	5.9300e-003	0.5220	0.0128	0.5348	0.1391	0.0125	0.1516		673.6756	673.6756	0.0344	0.0229	681.3600

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4742	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003
Energy	0.0123	0.1120	0.0941	6.7000e-004		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490
Mobile	0.1910	0.2507	2.3365	5.2600e-003	0.5220	4.2600e-003	0.5263	0.1391	3.9700e-003	0.1430		539.2207	539.2207	0.0318	0.0204	546.1058
Total	0.6775	0.3628	2.4328	5.9300e-003	0.5220	0.0128	0.5348	0.1391	0.0125	0.1516		673.6756	673.6756	0.0344	0.0229	681.3600

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/25/2022	5/18/2022	5	18	
2	Grading	Grading	5/19/2022	5/24/2022	5	4	
3	Building Construction	Building Construction	5/25/2022	10/17/2022	5	104	
4	Architectural Coating	Architectural Coating	10/18/2022	10/24/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,240; Non-Residential Outdoor: 11,080; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41
Grading	Excavators	1	8.00	158	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Demolition	Rubber Tired Dozers	1	1.00	247	0.40

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	5.00	0.00	129.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	2	9.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5455	0.0000	1.5455	0.2340	0.0000	0.2340			0.0000			0.0000
Off-Road	0.3081	2.8851	3.7192	6.2600e-003		0.1385	0.1385		0.1274	0.1274		605.8948	605.8948	0.1960		610.7937
Total	0.3081	2.8851	3.7192	6.2600e-003	1.5455	0.1385	1.6840	0.2340	0.1274	0.3614		605.8948	605.8948	0.1960		610.7937

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0334	1.2036	0.2806	4.4500e-003	0.1254	8.9400e-003	0.1344	0.0344	8.5600e-003	0.0430		487.8892	487.8892	0.0259	0.0774	511.6052
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0173	0.0126	0.1971	5.1000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		52.0064	52.0064	1.4100e-003	1.2500e-003	52.4144
Total	0.0507	1.2163	0.4777	4.9600e-003	0.1813	9.3000e-003	0.1906	0.0492	8.8900e-003	0.0581		539.8955	539.8955	0.0273	0.0787	564.0196

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6955	0.0000	0.6955	0.1053	0.0000	0.1053			0.0000			0.0000
Off-Road	0.0769	0.3333	4.4168	6.2600e-003		0.0103	0.0103		0.0103	0.0103	0.0000	605.8948	605.8948	0.1960		610.7937
Total	0.0769	0.3333	4.4168	6.2600e-003	0.6955	0.0103	0.7057	0.1053	0.0103	0.1156	0.0000	605.8948	605.8948	0.1960		610.7937

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0334	1.2036	0.2806	4.4500e-003	0.1254	8.9400e-003	0.1344	0.0344	8.5600e-003	0.0430		487.8892	487.8892	0.0259	0.0774	511.6052
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0173	0.0126	0.1971	5.1000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		52.0064	52.0064	1.4100e-003	1.2500e-003	52.4144
Total	0.0507	1.2163	0.4777	4.9600e-003	0.1813	9.3000e-003	0.1906	0.0492	8.8900e-003	0.0581		539.8955	539.8955	0.0273	0.0787	564.0196

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9381	0.0000	4.9381	2.5292	0.0000	2.5292			0.0000			0.0000
Off-Road	1.1826	12.5756	7.4597	0.0170		0.5345	0.5345		0.4926	0.4926		1,638.2305	1,638.2305	0.5223		1,651.2871
Total	1.1826	12.5756	7.4597	0.0170	4.9381	0.5345	5.4727	2.5292	0.4926	3.0218		1,638.2305	1,638.2305	0.5223		1,651.2871

Unmitigated Construction Off-Site

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0346	0.0253	0.3941	1.0200e-003	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		104.0127	104.0127	2.8200e-003	2.5000e-003	104.8288
Total	0.0346	0.0253	0.3941	1.0200e-003	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		104.0127	104.0127	2.8200e-003	2.5000e-003	104.8288

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2222	0.0000	2.2222	1.1382	0.0000	1.1382			0.0000			0.0000
Off-Road	0.2031	0.8802	9.0440	0.0170		0.0271	0.0271		0.0271	0.0271	0.0000	1,638.2305	1,638.2305	0.5223		1,651.2871
Total	0.2031	0.8802	9.0440	0.0170	2.2222	0.0271	2.2492	1.1382	0.0271	1.1652	0.0000	1,638.2305	1,638.2305	0.5223		1,651.2871

Mitigated Construction Off-Site

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0346	0.0253	0.3941	1.0200e-003	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		104.0127	104.0127	2.8200e-003	2.5000e-003	104.8288
Total	0.0346	0.0253	0.3941	1.0200e-003	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		104.0127	104.0127	2.8200e-003	2.5000e-003	104.8288

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2717	2.8833	1.8115	4.0300e-003		0.1393	0.1393		0.1281	0.1281		390.4383	390.4383	0.1263		393.5952
Total	0.2717	2.8833	1.8115	4.0300e-003		0.1393	0.1393		0.1281	0.1281		390.4383	390.4383	0.1263		393.5952

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8700e-003	0.1959	0.0672	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1600e-003		84.1846	84.1846	2.8100e-003	0.0121	87.8701
Worker	0.0312	0.0227	0.3547	9.2000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		93.6114	93.6114	2.5300e-003	2.2500e-003	94.3459
Total	0.0390	0.2187	0.4219	1.7000e-003	0.1262	2.5100e-003	0.1287	0.0341	2.3800e-003	0.0364		177.7961	177.7961	5.3400e-003	0.0144	182.2160

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0496	0.2148	2.1708	4.0300e-003		6.6100e-003	6.6100e-003		6.6100e-003	6.6100e-003	0.0000	390.4383	390.4383	0.1263		393.5952
Total	0.0496	0.2148	2.1708	4.0300e-003		6.6100e-003	6.6100e-003		6.6100e-003	6.6100e-003	0.0000	390.4383	390.4383	0.1263		393.5952

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8700e-003	0.1959	0.0672	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1600e-003		84.1846	84.1846	2.8100e-003	0.0121	87.8701

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0312	0.0227	0.3547	9.2000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		93.6114	93.6114	2.5300e-003	2.2500e-003	94.3459
Total	0.0390	0.2187	0.4219	1.7000e-003	0.1262	2.5100e-003	0.1287	0.0341	2.3800e-003	0.0364		177.7961	177.7961	5.3400e-003	0.0144	182.2160

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.6779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	25.8824	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9200e-003	5.0500e-003	0.0788	2.0000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		20.8025	20.8025	5.6000e-004	5.0000e-004	20.9658

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	6.9200e-003	5.0500e-003	0.0788	2.0000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		20.8025	20.8025	5.6000e-004	5.0000e-004	20.9658
-------	-------------	-------------	--------	-------------	--------	-------------	--------	-------------	-------------	-------------	--	---------	---------	-------------	-------------	---------

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.6779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
Total	25.7076	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9200e-003	5.0500e-003	0.0788	2.0000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		20.8025	20.8025	5.6000e-004	5.0000e-004	20.9658
Total	6.9200e-003	5.0500e-003	0.0788	2.0000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		20.8025	20.8025	5.6000e-004	5.0000e-004	20.9658

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1910	0.2507	2.3365	5.2600e-003	0.5220	4.2600e-003	0.5263	0.1391	3.9700e-003	0.1430		539.2207	539.2207	0.0318	0.0204	546.1058
Unmitigated	0.1910	0.2507	2.3365	5.2600e-003	0.5220	4.2600e-003	0.5263	0.1391	3.9700e-003	0.1430		539.2207	539.2207	0.0318	0.0204	546.1058

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	44.00	0.00	0.00	177,120	177,120
Junior College (2yr)	0.00	0.00	0.00		
Total	44.00	0.00	0.00	177,120	177,120

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	100.00	0.00	0.00	92	5	3

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Junior College (2yr)	16.60	8.40	6.90	100.00	0.00	0.00	92	7	1
----------------------	-------	------	------	--------	------	------	----	---	---

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Junior College (2yr)	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0123	0.1120	0.0941	6.7000e-004		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490
NaturalGas Unmitigated	0.0123	0.1120	0.0941	6.7000e-004		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490

5.2 Energy by Land Use - NaturalGas

Unmitigated

NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
----------------	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	984.11	0.0106	0.0965	0.0810	5.8000e-004		7.3300e-003	7.3300e-003		7.3300e-003	7.3300e-003		115.7776	115.7776	2.2200e-003	2.1200e-003	116.4656
Junior College (2yr)	158.716	1.7100e-003	0.0156	0.0131	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003		18.6724	18.6724	3.6000e-004	3.4000e-004	18.7834
Total		0.0123	0.1120	0.0941	6.7000e-004		8.5100e-003	8.5100e-003		8.5100e-003	8.5100e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.98411	0.0106	0.0965	0.0810	5.8000e-004		7.3300e-003	7.3300e-003		7.3300e-003	7.3300e-003		115.7776	115.7776	2.2200e-003	2.1200e-003	116.4656
Junior College (2yr)	0.158716	1.7100e-003	0.0156	0.0131	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003		18.6724	18.6724	3.6000e-004	3.4000e-004	18.7834
Total		0.0123	0.1120	0.0941	6.7000e-004		8.5100e-003	8.5100e-003		8.5100e-003	8.5100e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490

6.0 Area Detail

6.1 Mitigation Measures Area

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4742	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003
Unmitigated	0.4742	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0352					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4388					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003
Total	0.4742	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Architectural Coating	0.0352				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4388				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2700e-003	0.0000	1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003
Total	0.4742	2.0000e-005	2.2700e-003	0.0000	1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Date: 1/16/2022 6:26 PM

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Pier 400 ILWU Training Center
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	20.00	1000sqft	0.64	20,000.00	0
Junior College (2yr)	2.16	1000sqft	0.05	2,160.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Adjusted lot acreage to sum to 0.69 to get the correct grading usage.

Construction Phase - Adjust phase durations to sum to 6 months.

Off-road Equipment - Port-supplied equipment list.

Off-road Equipment - Port-supplied equipment list.

Off-road Equipment - Port-supplied equipment list.

Off-road Equipment -

Grading - Site Acreage was adjusted to equal 0.69 acres, which results in the total acres graded to be 1.5 acres due to multiple passes (determined by CalEEMod).

Demolition -

Trips and VMT - Grading haul truck trips set to zero because there would be no soil import or export.

Architectural Coating - Interior VOC is 50 g/L per SCAQMD Rule 1113.

Vehicle Trips - Adjust to force weekday trips to equal 44 one way trips. No Sat or Sun trips. Set all trips to commercial-work (C-W) trips.

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Area Coating - Interior is 50 g/L per SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation - Assume all equipment meets Tier 4 Final.

Area Mitigation - Non-residential interior paint will be 50 g/L per SCAQMD Rule 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	100.00	104.00
tblConstructionPhase	NumDays	10.00	18.00
tblConstructionPhase	NumDays	2.00	4.00
tblConstructionPhase	PhaseEndDate	10/12/2022	10/24/2022
tblConstructionPhase	PhaseEndDate	9/28/2022	10/17/2022
tblConstructionPhase	PhaseEndDate	5/6/2022	5/18/2022
tblConstructionPhase	PhaseEndDate	5/11/2022	5/24/2022

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	PhaseStartDate	10/6/2022	10/18/2022
tblConstructionPhase	PhaseStartDate	5/12/2022	5/25/2022
tblConstructionPhase	PhaseStartDate	5/10/2022	5/19/2022
tblGrading	AcresOfGrading	3.00	1.50
tblGrading	MaterialExported	0.00	422.00
tblGrading	MaterialImported	0.00	422.00
tblLandUse	LotAcreage	0.46	0.64
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	106.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	88.60	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	6.40	100.00
tblVehicleTrips	ST_TR	1.99	0.00
tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	SU_TR	5.00	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	4.96	2.20
tblVehicleTrips	WD_TR	20.25	0.00

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4742	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003
Energy	0.0123	0.1120	0.0941	6.7000e-004		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490
Mobile	0.1889	0.2701	2.2419	5.0300e-003	0.5220	4.2600e-003	0.5263	0.1391	3.9700e-003	0.1430		515.8141	515.8141	0.0323	0.0213	522.9808
Total	0.6753	0.3822	2.3383	5.7000e-003	0.5220	0.0128	0.5348	0.1391	0.0125	0.1516		650.2690	650.2690	0.0349	0.0238	658.2349

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4742	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003
Energy	0.0123	0.1120	0.0941	6.7000e-004		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490
Mobile	0.1889	0.2701	2.2419	5.0300e-003	0.5220	4.2600e-003	0.5263	0.1391	3.9700e-003	0.1430		515.8141	515.8141	0.0323	0.0213	522.9808
Total	0.6753	0.3822	2.3383	5.7000e-003	0.5220	0.0128	0.5348	0.1391	0.0125	0.1516		650.2690	650.2690	0.0349	0.0238	658.2349

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/25/2022	5/18/2022	5	18	
2	Grading	Grading	5/19/2022	5/24/2022	5	4	
3	Building Construction	Building Construction	5/25/2022	10/17/2022	5	104	
4	Architectural Coating	Architectural Coating	10/18/2022	10/24/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,240; Non-Residential Outdoor: 11,080; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41
Grading	Excavators	1	8.00	158	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Demolition	Rubber Tired Dozers	1	1.00	247	0.40

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	5.00	0.00	129.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	2	9.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5455	0.0000	1.5455	0.2340	0.0000	0.2340			0.0000			0.0000
Off-Road	0.3081	2.8851	3.7192	6.2600e-003		0.1385	0.1385		0.1274	0.1274		605.8948	605.8948	0.1960		610.7937
Total	0.3081	2.8851	3.7192	6.2600e-003	1.5455	0.1385	1.6840	0.2340	0.1274	0.3614		605.8948	605.8948	0.1960		610.7937

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0326	1.2525	0.2856	4.4600e-003	0.1254	8.9600e-003	0.1344	0.0344	8.5700e-003	0.0430		488.0322	488.0322	0.0259	0.0774	511.7547
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0185	0.0140	0.1809	4.8000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		49.2567	49.2567	1.4200e-003	1.3400e-003	49.6907
Total	0.0511	1.2664	0.4665	4.9400e-003	0.1813	9.3200e-003	0.1907	0.0492	8.9000e-003	0.0581		537.2889	537.2889	0.0273	0.0788	561.4453

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6955	0.0000	0.6955	0.1053	0.0000	0.1053			0.0000			0.0000
Off-Road	0.0769	0.3333	4.4168	6.2600e-003		0.0103	0.0103		0.0103	0.0103	0.0000	605.8948	605.8948	0.1960		610.7937
Total	0.0769	0.3333	4.4168	6.2600e-003	0.6955	0.0103	0.7057	0.1053	0.0103	0.1156	0.0000	605.8948	605.8948	0.1960		610.7937

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0326	1.2525	0.2856	4.4600e-003	0.1254	8.9600e-003	0.1344	0.0344	8.5700e-003	0.0430		488.0322	488.0322	0.0259	0.0774	511.7547
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0185	0.0140	0.1809	4.8000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		49.2567	49.2567	1.4200e-003	1.3400e-003	49.6907
Total	0.0511	1.2664	0.4665	4.9400e-003	0.1813	9.3200e-003	0.1907	0.0492	8.9000e-003	0.0581		537.2889	537.2889	0.0273	0.0788	561.4453

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9381	0.0000	4.9381	2.5292	0.0000	2.5292			0.0000			0.0000
Off-Road	1.1826	12.5756	7.4597	0.0170		0.5345	0.5345		0.4926	0.4926		1,638.2305	1,638.2305	0.5223		1,651.2871
Total	1.1826	12.5756	7.4597	0.0170	4.9381	0.5345	5.4727	2.5292	0.4926	3.0218		1,638.2305	1,638.2305	0.5223		1,651.2871

Unmitigated Construction Off-Site

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0371	0.0279	0.3619	9.7000e-004	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.5133	98.5133	2.8500e-003	2.6700e-003	99.3813
Total	0.0371	0.0279	0.3619	9.7000e-004	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.5133	98.5133	2.8500e-003	2.6700e-003	99.3813

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2222	0.0000	2.2222	1.1382	0.0000	1.1382			0.0000			0.0000
Off-Road	0.2031	0.8802	9.0440	0.0170		0.0271	0.0271		0.0271	0.0271	0.0000	1,638.2305	1,638.2305	0.5223		1,651.2871
Total	0.2031	0.8802	9.0440	0.0170	2.2222	0.0271	2.2492	1.1382	0.0271	1.1652	0.0000	1,638.2305	1,638.2305	0.5223		1,651.2871

Mitigated Construction Off-Site

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0371	0.0279	0.3619	9.7000e-004	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.5133	98.5133	2.8500e-003	2.6700e-003	99.3813
Total	0.0371	0.0279	0.3619	9.7000e-004	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.5133	98.5133	2.8500e-003	2.6700e-003	99.3813

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2717	2.8833	1.8115	4.0300e-003		0.1393	0.1393		0.1281	0.1281		390.4383	390.4383	0.1263		393.5952
Total	0.2717	2.8833	1.8115	4.0300e-003		0.1393	0.1393		0.1281	0.1281		390.4383	390.4383	0.1263		393.5952

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7800e-003	0.2040	0.0695	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1700e-003		84.2163	84.2163	2.8000e-003	0.0122	87.9061
Worker	0.0334	0.0251	0.3257	8.7000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		88.6620	88.6620	2.5600e-003	2.4100e-003	89.4432
Total	0.0411	0.2291	0.3952	1.6500e-003	0.1262	2.5100e-003	0.1287	0.0341	2.3800e-003	0.0364		172.8783	172.8783	5.3600e-003	0.0146	177.3493

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0496	0.2148	2.1708	4.0300e-003		6.6100e-003	6.6100e-003		6.6100e-003	6.6100e-003	0.0000	390.4383	390.4383	0.1263		393.5952
Total	0.0496	0.2148	2.1708	4.0300e-003		6.6100e-003	6.6100e-003		6.6100e-003	6.6100e-003	0.0000	390.4383	390.4383	0.1263		393.5952

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7800e-003	0.2040	0.0695	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1700e-003		84.2163	84.2163	2.8000e-003	0.0122	87.9061

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0334	0.0251	0.3257	8.7000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		88.6620	88.6620	2.5600e-003	2.4100e-003	89.4432
Total	0.0411	0.2291	0.3952	1.6500e-003	0.1262	2.5100e-003	0.1287	0.0341	2.3800e-003	0.0364		172.8783	172.8783	5.3600e-003	0.0146	177.3493

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.6779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	25.8824	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4100e-003	5.5800e-003	0.0724	1.9000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		19.7027	19.7027	5.7000e-004	5.3000e-004	19.8763

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	7.4100e-003	5.5800e-003	0.0724	1.9000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		19.7027	19.7027	5.7000e-004	5.3000e-004	19.8763
-------	-------------	-------------	--------	-------------	--------	-------------	--------	-------------	-------------	-------------	--	---------	---------	-------------	-------------	---------

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.6779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
Total	25.7076	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4100e-003	5.5800e-003	0.0724	1.9000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		19.7027	19.7027	5.7000e-004	5.3000e-004	19.8763
Total	7.4100e-003	5.5800e-003	0.0724	1.9000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		19.7027	19.7027	5.7000e-004	5.3000e-004	19.8763

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1889	0.2701	2.2419	5.0300e-003	0.5220	4.2600e-003	0.5263	0.1391	3.9700e-003	0.1430		515.8141	515.8141	0.0323	0.0213	522.9808
Unmitigated	0.1889	0.2701	2.2419	5.0300e-003	0.5220	4.2600e-003	0.5263	0.1391	3.9700e-003	0.1430		515.8141	515.8141	0.0323	0.0213	522.9808

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	44.00	0.00	0.00	177,120	177,120
Junior College (2yr)	0.00	0.00	0.00		
Total	44.00	0.00	0.00	177,120	177,120

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	100.00	0.00	0.00	92	5	3

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Junior College (2yr)	16.60	8.40	6.90	100.00	0.00	0.00	92	7	1
----------------------	-------	------	------	--------	------	------	----	---	---

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Junior College (2yr)	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0123	0.1120	0.0941	6.7000e-004		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490
NaturalGas Unmitigated	0.0123	0.1120	0.0941	6.7000e-004		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490

5.2 Energy by Land Use - NaturalGas

Unmitigated

NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
----------------	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	kBTU/yr	lb/day										lb/day					
		General Light Industry	984.11	0.0106	0.0965	0.0810	5.8000e-004		7.3300e-003	7.3300e-003		7.3300e-003	7.3300e-003		115.7776	115.7776	2.2200e-003
Junior College (2yr)	158.716	1.7100e-003	0.0156	0.0131	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003		18.6724	18.6724	3.6000e-004	3.4000e-004	18.7834
Total		0.0123	0.1120	0.0941	6.7000e-004		8.5100e-003	8.5100e-003		8.5100e-003	8.5100e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490

Mitigated

Land Use	Natural Gas Use	kBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
			lb/day										lb/day					
General Light Industry	0.98411		0.0106	0.0965	0.0810	5.8000e-004		7.3300e-003	7.3300e-003		7.3300e-003	7.3300e-003		115.7776	115.7776	2.2200e-003	2.1200e-003	116.4656
Junior College (2yr)	0.158716		1.7100e-003	0.0156	0.0131	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003		18.6724	18.6724	3.6000e-004	3.4000e-004	18.7834
Total			0.0123	0.1120	0.0941	6.7000e-004		8.5100e-003	8.5100e-003		8.5100e-003	8.5100e-003		134.4500	134.4500	2.5800e-003	2.4600e-003	135.2490

6.0 Area Detail

6.1 Mitigation Measures Area

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4742	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003
Unmitigated	0.4742	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0352					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4388					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003
Total	0.4742	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Architectural Coating	0.0352				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4388				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2700e-003	0.0000	1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003
Total	0.4742	2.0000e-005	2.2700e-003	0.0000	1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8500e-003	4.8500e-003	1.0000e-005		5.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Date: 1/16/2022 6:30 PM

Pier 400 ILWU Training Center - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

EXHIBIT A

MITIGATION MONITORING AND REPORTING PROGRAM

The following Mitigation Measures drafted for the Pier 400 Container Terminal and Transportation Corridor Project Supplemental Environmental Impact Report shall be adhered to as appropriate for Maintenance and Repair (M&R) Training Center construction and operation. Any more stringent requirement from local, state, federal regulations, or the Port of Los Angeles' Sustainable Construction Guidelines (Exhibit B), shall be adhered to, and supersedes any construction or operational requirement as listed in the following Mitigation Measures.

Applicable Mitigation Measures for the M&R Training Center Project: M&R Training Center construction and operation activities are applicable to the following Mitigation Measures adopted for the Pier 400 Container Terminal and Transportation Project Supplemental Environmental Impact Report.

- **Mitigation Measure 1-1 Equipment Tune.**
- **Mitigation Measure 1-2 Carpool.**
- **Mitigation Measure 1-3 Stage II Smog Alerts.**
- **Mitigation Measure 1-4 Low NO_x Engines.**
- **Mitigation Measure 1-6 Traffic Speed.**
- **Mitigation Measure 1-7 Wind Speed.**
- **Mitigation Measure 1-12 Parking.**
- **Mitigation Measure 4-1 Training Materials.**
- **Mitigation Measure 4-2 Pile Driving Prohibition.**
- **Mitigation Measure 4-3 Discontinuation Construction.**
- **Mitigation Measure 4-5 Lighting System.***
- **Mitigation Measure 4-6 Predator Perching.***

Not Applicable Mitigation Measures for the M&R Training Center Project: M&R Training Center construction and operation activities are not applicable to the following Mitigation Measures adopted for the Pier 400 Container Terminal and Transportation Project Supplemental Environmental Impact Report.

- **Mitigation Measure 1-5 CARB Reformulated Diesel.**
- **Mitigation Measure 1-8 Alternative Fuels in Yard Equipment.**
- **Mitigation Measure 1-9 Clean Fuels in Marine Vessels.**
- **Mitigation Measure 1-10 Dispatch System.**
- **Mitigation Measure 1-11 Off-Peak Scheduling.**
- **Mitigation Measure 2-1 Seaside Ave Ramp.**
- **Mitigation Measure 2-2 Terminal Way Grade Separation.**
- **Mitigation Measure 2-3 Ocean Blvd and TI Fwy Improvements.**
- **Mitigation Measure 2-4 Alameda Street Grade Separation.**
- **Mitigation Measure 4-4 Meet with USFWS.**
- **Mitigation Measure 4-7 Elevate Nest Site.**
- **Mitigation Measure 4-8 High Structures.**
- **Mitigation Measure 4-9 Off Site Mitigation for Loss.**
- **Mitigation Measure 4-10 Off Site Mitigation for Degradation.**
- **Mitigation Measure 4-11 Removal Seaplane Lagoon Groin.**
- **Mitigation Measure 4-12 Turbidity Control.**
- **Mitigation Measure 5-1 None Feasible.**
- **Mitigation Measure 5-2 At Grade Crossings.**

*The Tenant is the Responsible Party for implementing this mitigation measure and submitting the appropriate Mitigation Monitoring Report form and verification documents.

Mitigation Monitoring and Reporting Program

PIER 400 CONTAINER TERMINAL AND TRANSPORTATION CORRIDOR PROJECT

State Clearinghouse Number: 98031135

Prepared by:

Environmental Management Division

Los Angeles Harbor Department
425 S. Palos Verdes Street
P.O. Box 151
San Pedro, CA 90733-0151

October 1999

ADP No: 980107-003

SECTION 1

MITIGATION MONITORING AND REPORTING PROGRAM

MANDATE

Public Resource Code Section 21081.6, enacted by passage of AB3180 (Cortese) requires public agencies approving projects that have actual or potential significant environmental impacts to adopt a mitigation monitoring/reporting program. This program is to ensure that mitigation measures adopted to mitigate or avoid significant impacts identified in the Environmental Impact Report are implemented in a timely manner. A decision-making agency, however, is not obligated to design a monitoring/reporting program for those particular mitigation measures that are the responsibility of another agency or that are infeasible (Public Resources Code Section 2108 [b] and [c]).

This Mitigation Monitoring and Reporting Program (MMRP), in accordance with AB3180, ensures implementation of the mitigation measures identified in the Pier 400 Container Terminal and Transportation Corridor Project Supplemental Environmental Impact Report (SEIR).

SIGNIFICANT IMPACTS AND MITIGATION MEASURES

The Pier 400 Container Terminal and Transportation Corridor Project Supplemental Environmental Impact Report identified potentially significant impacts in the following areas: meteorology and air quality, ground transportation, biota and habitats, and noise and vibration. Mitigation measures will be used to reduce these impacts to insignificance, although some of the impacts to meteorology and air quality, ground transportation, and noise and vibration, will be minimized but remain significant after mitigation.

MONITORING/REPORTING REQUIREMENTS

A Mitigation Monitoring Report shall be prepared (at the frequency specified) for each mitigation measure identified in the following pages. The Summary of Significant Adverse Impacts, Mitigation Measures and Reporting Requirements (Table S-1) lists impacts and associated mitigation measures.

Once this monitoring plan has been adopted by the Board, the applicable Harbor Department division(s) will include the mitigation monitoring and reporting requirements into the appropriate permits (i.e., engineering specifications, engineering construction permits, real estate entitlements, and/or coastal development permits).

Mitigation measures carried out during the construction phase will be monitored by the Contractor in coordination with the Harbor Department Construction Manager. Mitigation Monitoring Report forms will be affixed to all construction contracts (and/or permits). These forms will be used by inspectors to verify/report compliance. Once completed, these forms will be kept by the Environmental Management Division in the project file to demonstrate compliance with Public Resource Code Section 21081.6. Monitoring activities will cease upon the satisfactory completion of the mitigation measures.

Mitigation measures implemented during the operational phase tend to be ongoing and may last through the entire life of the project. Self-monitoring by the project applicant/facility operator (tenant) is required. Mitigation Monitoring Report forms will be provided to tenant.

Once completed, these forms will be kept by the tenant to demonstrate compliance with Public Resource Code Section 21081.6. Monitoring activities will cease upon the satisfactory completion of the mitigation measures.

The Mitigation Monitoring Report forms for the mitigation measures are presented in Section 2. The individual who has direct knowledge that the work was done will certify the work has been done by completing the "Name and Title of Person Completing Form" line of the form. For construction, this would usually be the contractor. The Construction Manager or Tenant or his agent would complete the "Name and Title of Responsible Person" line of the form. The form and support documents would be forwarded to the Environmental Management Division. If the report is acceptable the Environmental Management Division will so indicate by checking "Yes" in the Compliance Accept block; fill out the Form Received By, Title, and Date Sections; and file in the project file. If not, the Environmental Management Division will so indicate by checking "No" in the Compliance Accept block; fill out the Form Received By, Title, and Date Sections; and return the report to the originator to be corrected and resubmitted. Once completed, these Mitigation Monitoring Reports will be kept by the Environmental Management Division in the project file to demonstrate compliance with Public Resource Code Section 21081.6.

The following are the Mitigation Monitoring Reports required to ensure that measures adopted to mitigate or avoid significant impacts identified in the Pier 400 Container Terminal and Transportation Corridor Project Supplemental Environmental Impact Report are implemented:

- **Mitigation Measures 1-1 Equipment Tune.**

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to construction and annually thereafter (during construction), to the Harbor Department Construction Manager. The compliance report shall certify that all construction equipment and vehicles were maintained in proper tune and that engine timing retard were used whenever feasible. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

- **Mitigation Measure 1-2 Carpool.**

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to construction and annually thereafter (during construction), to the Harbor Department Construction Manager. The compliance report shall document efforts undertaken to encourage ridesharing and mass transit use among construction personnel. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

- **Mitigation Measure 1-3 Stage II Smog Alerts.**

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form prior to initial construction with its SCAQMD approved copy of the Emergency Episode Plan for Stationary Curtailment detailing the procedures to be undertaken to ensure construction activities are discontinued during Stage II Smog Alerts in the Long Beach source receptor area, to the Harbor Department Construction Manager. The Person

Completing Form shall be the person responsible for environmental monitoring.
The Responsible Person shall be the contractor's project manager.

- **Mitigation Measure 1-4 Low NO_x Engines.**

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to initial construction, to the Harbor Department Construction Manager. The compliance report shall document efforts made to research and use low NO_x engines and/or alternative fuels whenever feasible. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

- **Mitigation Measure 1-5 CARB Reformulated Diesel.**

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to initial construction, to the Harbor Department Construction Manager. The compliance report shall document efforts made to obtain and use CARB reformulated diesel fuel in off-road equipment during construction. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

- **Mitigation Measure 1-6 Traffic Speed.**

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to construction and annually thereafter, to the Harbor Department Construction Manager. The compliance report shall document efforts made to maintain traffic speeds of 15 miles per hour or less on all unpaved surfaces during construction. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

- **Mitigation Measure 1-7 Wind Speed.**

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, annually during construction, to the Harbor Department Construction Manager. The compliance report shall document occurrences of episodes when wind speeds exceed 25 miles per hour as long as grading activities are undertaken. This report shall also document the number of times grading was suspended due to elevated wind speed. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

- **Mitigation Measure 1-8 Alternative Fuels in Yard Equipment.**

The Tenant shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup and every 5 years thereafter, to the Harbor Department Environmental Management Division. The compliance report shall document efforts made towards the use of clean fuels, electric power, and injection timing retard (where feasible) on diesel-powered terminal yard equipment. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the terminal manager (or designee).

- **Mitigation Measure 1-9 Clean Fuels in Marine Vessels.**

The Tenant shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup and every 5 years thereafter, to the Harbor Department Environmental Management Division. The compliance report shall document efforts made towards the use of clean fuels in marine vessels calling at the terminal. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the terminal manager (or designee).

- **Mitigation Measure 1-10 Dispatch System.**

The Tenant shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup and every 5 years thereafter, to the Harbor Department Environmental Management Division. The compliance report shall document efforts made towards the use of automated dispatch systems such as “Dispatch System” created by the Intermodal Committee at <http://www.laintermodal.com>. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the terminal manager (or designee).

- **Mitigation Measure 1-11 Off-Peak Scheduling.**

The Tenant shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup and every 5 years thereafter, to the Harbor Department Environmental Management Division. The compliance report shall document efforts made towards scheduling goods movements for off-peak traffic hours where feasible. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the terminal manager (or designee).

- **Mitigation Measure 1-12 Parking.**

The Tenant shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup, to the Harbor Department Environmental Management Division. The compliance report shall document efforts made towards configuring employee parking to minimize traffic interference. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the terminal manager (or designee).

- **Mitigation Measure 2-1 Seaside Ave Ramp.**

The Harbor Department Construction Manager shall submit the appropriate Mitigation Monitoring Report form, prior to construction, to the Harbor Department Environmental Management Division. Execution of the form acknowledges that the Seaside Avenue ramp is included in the specifications for the project. The Person Completing Form shall be the Harbor Department Construction Manager. The Responsible Person shall be the Chief Harbor Engineer.

- **Mitigation Measure 2-2 Terminal Way Grade Separation.**

The Harbor Department Construction Manager shall submit the appropriate Mitigation Monitoring Report form, prior to construction, to the Harbor Department Environmental Management Division. Execution of the form acknowledges that the Terminal Way grade separation is included in the specifications for the project. The Person Completing Form shall be the Harbor Department Construction Manager. The Responsible Person shall be the Chief Harbor Engineer.

- **Mitigation Measure 2-3 Ocean Blvd and TI Fwy Improvements.**

None required. Project is funded and approved. Project is responsibility of Port of Long Beach/Caltrans.

- **Mitigation Measure 2-4 Alameda Street Grade Separation.**

None required. Project is funded and approved. Project is responsibility of Alameda Corridor Transportation Authority.

- **Mitigation Measure 4-1 Training Materials.**

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to construction and annually thereafter, to the Harbor Department Construction Manager. The compliance report shall document efforts to provide training and educational materials on endangered, threatened and protected species to construction workers in the area of Pier 400. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

- **Mitigation Measure 4-2 Pile Driving Prohibition.**

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form, annually in September, to the Harbor Department Construction Manager. Execution of the form acknowledges that impact pile driving is prohibited along the access corridor during the April to September breeding season of the California least tern and certifies that no prohibited pile driving has occurred. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

- **Mitigation Measure 4-3 Discontinue Construction.**

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to construction and annually thereafter, to the Harbor Department Construction Manager. The compliance report shall document efforts to ensure that construction activities are discontinued whenever any least tern or other protected species nests are found outside the designated nesting area during the least tern's nesting season (April to September) until cleared in consultation with the CDFG and USFWS. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

- **Mitigation Measure 4-4 Meet with USFWS.**

The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup and annually thereafter, to the Harbor Department Environmental Management Division. The compliance report shall document annual meeting(s) with USFWS and CDFG to define level of protection required for California least tern nesting site in accordance with the nesting site MOA and efforts to implement agreed level of protection in accordance with MOA. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

- **Mitigation Measure 4-5 Lighting System.**

The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup, to the Harbor Department Environmental Management Division. The compliance report shall document efforts to ensure that lighting systems at the terminal are designed to minimize glare and reduce disruptions to the designated nesting sites. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

- **Mitigation Measure 4-6 Predator Perching.**

The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup, to the Harbor Department Environmental Management Division. The compliance report shall document efforts to install anti-perching devices on potential predator roosts in project area. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

- **Mitigation Measure 4-7 Elevate Nest Site.**

The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup, to the Harbor Department Environmental Management Division. The compliance report shall document efforts to raise the elevation of the designated California least tern nesting site. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

- **Mitigation Measure 4-8 High Structures.**

The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup, to the Harbor Department Environmental Management Division. The compliance report shall document efforts to design the facility so that no high structures are adjacent to the designated California least tern site. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

- **Mitigation Measure 4-9 Off Site Mitigation for Loss.**

The Harbor Department Mitigation Bank Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, after completion of gap fill construction, to the Harbor Department Environmental Management Division. The compliance report shall document provide off-site mitigation for replacement of lost habitat through existing or new mitigation agreements. The Responsible Person shall be the Harbor Department Mitigation Bank Coordinator.

- **Mitigation Measure 4-10 Off Site Mitigation for Degradation.**

The Harbor Department Mitigation Bank Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, after completion of gap fill construction, to the Harbor Department Environmental Management Division. The compliance report shall document provide off-site mitigation for degradation of biological resources through existing or new mitigation agreements. The Responsible Person shall be the Harbor Department Mitigation Bank Coordinator.

- **Mitigation Measure 4-11 Remove Seaplane Lagoon Groin.**

The Harbor Department Mitigation Bank Coordinator shall submit the appropriate Mitigation Monitoring Report form after removal of the Seaplane Lagoon groin, to the Harbor Department Environmental Management Division. Execution of the form acknowledges that the Seaplane Lagoon groin has been removed. The Responsible Person shall be the Harbor Department Mitigation Bank Coordinator.

- **Mitigation Measure 4-12 Turbidity Control.**

The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, annually in September until gap closure is complete, to the Harbor Department Environmental Management Division. The compliance report shall document efforts to ensure that turbidity from the fill activities do not extend into the shallow water habitat to the east of Pier 300 during the April-September breeding season of the California least tern. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

- **Mitigation Measure 5-1 None Feasible.**

No feasible measure available. No mitigation monitoring required.

- **Mitigation Measure 5-2 At-Grade Crossings.**

The Harbor Department Construction Manager shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, after completion of construction, to the Harbor Department Environmental Management Division. The compliance report will document which of the measure alternatives was adopted/constructed. The Responsible Person shall be the Harbor Department Construction Manager.

SECTION 2

MITIGATION MONITORING REPORT FORMS

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-1 Equipment Tune
Properly tune and maintain all construction equipment, including engine timing and retard where feasible.

Monitoring/Reporting Frequency
Contractor/LAHD/Prior to construction and annually thereafter.

Monitoring/Reporting Requirement
The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to construction and annually thereafter (during construction), to the Harbor Department Construction Manager. The compliance report shall certify that all construction equipment and vehicles were maintained in proper tune and that engine timing retard were used whenever feasible. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-2 Carpool.
Encourage ridesharing and mass transit among construction personnel.

Monitoring/Reporting Frequency
Contractor/LAHD/Prior to construction and annually thereafter.

Monitoring/Reporting Requirement
The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to construction and annually thereafter (during construction), to the Harbor Department Construction Manager. The compliance report shall document efforts undertaken to encourage ridesharing and mass transit use among construction personnel. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-3 Stage II Smog Alert.
Discontinue construction during Stage II Smog Alerts in the Long Beach source receptor area.

Monitoring/Reporting Frequency
Contractor/LAHD/Prior to start of construction.

Monitoring/Reporting Requirement
The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form prior to initial start of construction with its SCAQMD approved copy of the Emergency Episode Plan for Stationary Curtailment detailing the procedures to be undertaken to ensure construction activities are discontinued during Stage II Smog Alerts in the Long Beach source receptor area, to the Harbor Department Construction Manager. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-4 Low NOx Engines
Use low-NOx engines when ever feasible. Use alternative fuels incluing electrification, catalytic converters, particulate traps and other advanced technlogy whenever feasible.

Monitoring/Reporting Frequency
Contractor/LAHD/Prior to start of construction.

Monitoring/Reporting Requirement
The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to initial construction, to the Harbor Department Construction Manager. The compliance report shall document efforts made to obtain and use CARB reformulated diesel fuel in off-road equipment during construction. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd In EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-5 CARB Reformulated Diesel
Encourage the use of CARB reformulated diesel fuel in off-road equipment during construction.

Monitoring/Reporting Frequency
Contractor/LAHD/Prior to start of construction.

Monitoring/Reporting Requirement
The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to initial construction, to the Harbor Department Construction Manager. The compliance report shall document efforts made to obtain and use CARB reformulated diesel fuel in off-road equipment during construction. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd In EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-6 Traffic Speed
Maintain traffic speeds of 15 mph or less on all unpaved surfaces.

Monitoring/Reporting Frequency
Contractor/LAHD/Annually during construction.

Monitoring/Reporting Requirement
The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to initial construction, to the Harbor Department Construction Manager. The compliance report shall document efforts made to maintain traffic speeds of 15 miles per hour or less on all unpaved surfaces during construction. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD		Environmental Assessment Log Number 980107-003		
Project Pier 400 Container Terminal & Transportation Corridor				
Location Pier 400		State Clearinghouse Number 98031135		
Mitigation Measure (No./Title/Description) Meteorology and Air Quality 1-7 Wind Speed Suspend grading activities when wind speeds exceed 25 mph.				
Monitoring/Reporting Frequency Contractor/LAHD/Annually during construction.				
Monitoring/Reporting Requirement The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, annually during construction, to the Harbor Department Construction Manager. The compliance report shall document occurrences of episodes when wind speeds exceed 25 miles per hour as long as grading activities are undertaken. This report shall also document the number of times grading was suspended due to elevated wind speed. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.				
In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.				
Name and Title of Person Completing Form		Signature	Date	
Name and Title of Responsible Person		Signature	Date	
Form Received by: (LAHD Staff Use Only)		Title	Date	
		Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

09/23/1999

Mitigation Monitoring Form 8/93

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-8 Alternative Fuels in Yard Equipment
Encourage the use of clean fuels, electric power, and injection timing retard (where feasible) on diesel-powered terminal yard equipment

Monitoring/Reporting Frequency
Tenant/Prior to startup and every 5 years thereafter.

Monitoring/Reporting Requirement
The Tenant shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup and every 5 years thereafter, to the Harbor Department Environmental Management Division. The compliance report shall document efforts made towards the use of clean fuels, electric power, and injection timing retard (where feasible) on diesel-powered terminal yard equipment. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the terminal manager (or designee).

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-9 Clean Fuels in Marine Vessels
Encourage the use of clean fuels in all marine vessels

Monitoring/Reporting Frequency
Tenant/Prior to startup and every 5 years thereafter.

Monitoring/Reporting Requirement
The Tenant shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup and every 5 years thereafter, to the Harbor Department Environmental Management Division. The compliance report shall document efforts made towards the use of clean fuels in marine vessels calling at the terminal. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the terminal manager (or designee).

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-10 Dispatch System
Encourage the use of the internet web site "Dispatch System" created by the Intermodal Committee (website at <http://www.laintermodal.com>)

Monitoring/Reporting Frequency
Tenant/Prior to startup and every 5 years thereafter.

Monitoring/Reporting Requirement
The Tenant shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup and every 5 years thereafter, to the Harbor Department Environmental Management Division. The compliance report shall document efforts made towards the use of automated dispatch systems such as "Dispatch System" created by the Intermodal Committee at <http://www.laintermodal.com>. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the terminal manager (or designee).

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-11 Off-Peak Scheduling
Encourage tenant(s) to schedule goods movement for off-peak traffic hours when feasible

Monitoring/Reporting Frequency
Tenant/Prior to startup and every 5 years thereafter.

Monitoring/Reporting Requirement
The Tenant shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup and every 5 years thereafter, to the Harbor Department Environmental Management Division. The compliance report shall document efforts made towards scheduling goods movements for off-peak traffic hours where feasible. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the terminal manager (or designee).

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd In EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Meteorology and Air Quality
1-12 Parking
Configure parking to minimize traffic interference.

Monitoring/Reporting Frequency
Tenant/Prior to startup

Monitoring/Reporting Requirement
The Tenant shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup, to the Harbor Department Environmental Management Division. The compliance report shall document efforts made towards configuring employee parking to minimize traffic interference. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the terminal manager (or designee).

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD		Environmental Assessment Log Number 980107-003		
Project Pier 400 Container Terminal & Transportation Corridor				
Location Pier 400		State Clearinghouse Number 98031135		
Mitigation Measure (No./Title/Description) Ground Transportation 2-1 Seaside Ave Ramp Construct a ramp to accommodate westbound-to-southbound left turns at the Seaside Ave/Navy Way intersection.				
Monitoring/Reporting Frequency LAHD/Prior to construction				
Monitoring/Reporting Requirement The Harbor Department Construction Manager shall submit the appropriate Mitigation Monitoring Report form, prior to construction, to the Harbor Department Environmental Management Division. Execution of the form acknowledges that the Seaside Avenue ramp is included in the specifications for the project. The Person Completing Form shall be the Harbor Department Construction Manager. The Responsible Person shall be the Chief Harbor Engineer.				
In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.				
Name and Title of Person Completing Form		Signature	Date	
Name and Title of Responsible Person		Signature	Date	
Form Received by: (LAHD Staff Use Only)		Title	Date	
		Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

09/23/1999

Mitigation Monitoring Form 8/93

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD		Environmental Assessment Log Number 980107-003		
Project Pier 400 Container Terminal & Transportation Corridor				
Location Pier 400		State Clearinghouse Number 98031135		
Mitigation Measure (No./Title/Description) Ground Transportation 2-2 Terminal Way Grade Separation Construct a grade separation at the Navy Way/Terminal Way intersection to accommodate for the inbound Pier 400 access road.				
Monitoring/Reporting Frequency LAHD/Prior to construction				
Monitoring/Reporting Requirement The Harbor Department Construction Manager shall submit the appropriate Mitigation Monitoring Report form, prior to construction, to the Harbor Department Environmental Management Division. Execution of the form acknowledges that the Terminal Way grade separation is included in the specifications for the project. The Person Completing Form shall be the Harbor Department Construction Manager. The Responsible Person shall be the Chief Harbor Engineer.				
In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.				
Name and Title of Person Completing Form		Signature	Date	
Name and Title of Responsible Person		Signature	Date	
Form Received by: (LAHD Staff Use Only)		Title	Date	
		Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

09/23/1999

Mitigation Monitoring Form 8/93

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Ground Transportation
2-3 Ocean Blvd and TI Fwy Improvements
Construct a diamond interchange (or equivalent improvement) at the Ocean Blvd./T.I. Freeway intersection.

Monitoring/Reporting Frequency
Caltrans/Port of Long Beach/None required.

Monitoring/Reporting Requirement
None required. Project is funded and approved. Project is responsibility of Port of Long Beach/Caltrans.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Ground Transportation
2-4 Alameda Street Grade Separation
Construct a grade separation at the Alameda Street/Pacific Coast Highway intersection.

Monitoring/Reporting Frequency
ACTA/None required.

Monitoring/Reporting Requirement
None required. Project is funded and approved. Project is responsibility of Alameda Corridor Transportation Authority.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Biota and Habitats
4-1 Training Materials
Provide training and educational materials on endangered, threatened, and protected species to construction workers in the area of Pier 400.

Monitoring/Reporting Frequency
Contractor/LAHD/Prior to construction and annually thereafter.

Monitoring/Reporting Requirement
The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to construction and annually thereafter, to the Harbor Department Construction Manager. The compliance report shall document efforts to provide training and educational materials on endangered, threatened and protected species to construction workers in the area of Pier 400. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd In EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Biota and Habitats
4-2 Pile Driving
Unless otherwise approved by the CDFG and USFWS, no impact pile driving shall be allowed along the access corridor during the April to September breeding season of the California least tern.

Monitoring/Reporting Frequency
Contractor/LAHD/Annually, in September.

Monitoring/Reporting Requirement
The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form, annually in September, to the Harbor Department Construction Manager. Execution of the form acknowledges that impact pile driving is prohibited along the access corridor during the April to September breeding season of the California least tern and certifies that no prohibited pile driving has occurred. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)

Biota and Habitats

4-3 Discontinue Construction

Discontinue construction activities whenever a bird's nest is discovered during the least tern's nesting season (April to September) until cleared in consultation with the CDFG and USFWS.

If any least tern or other protected species nests are found outside the designated nesting area during construction, all work in the vicinity of the nest shall be halted and a qualified biologist shall be notified immediately. An appropriate buffer around the nest shall be established in coordination with CDFG and USFWS.

Monitoring/Reporting Frequency

Contractor/LAHD/Prior to construction and annually thereafter.

Monitoring/Reporting Requirement

The Construction Contractor shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to construction and annually thereafter, to the Harbor Department Construction Manager. The compliance report shall document efforts to ensure that construction activities are discontinued whenever any least tern or other protected species nests are found outside the designated nesting area during the least tern's nesting season (April to September) until cleared in consultation with the CDFG and USFWS. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD		Environmental Assessment Log Number 980107-003		
Project Pier 400 Container Terminal & Transportation Corridor				
Location Pier 400		State Clearinghouse Number 98031135		
Mitigation Measure (No./Title/Description) Biota and Habitats 4-4 Meet with USFWS Meet with USFWS and CDFG annually to define level of protection required for California least tern nesting site in accordance with the nesting site MOA. Implement agreed level of protection in accordance with the nesting site MOA.				
Monitoring/Reporting Frequency LAHD/Prior to startup and annually thereafter.				
Monitoring/Reporting Requirement The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup and annually thereafter, to the Harbor Department Environmental Management Division. The compliance report shall document annual meeting(s) with USFWS and CDFG to define level of protection required for California least tern nesting site in accordance with the nesting site MOA and efforts to implement agreed level of protection in accordance with MOA. The Person Completing Form shall be the person responsible for environmental monitoring. The Responsible Person shall be the contractor's project manager.				
In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.				
Name and Title of Person Completing Form		Signature	Date	
Name and Title of Responsible Person		Signature	Date	
Form Received by: (LAHD Staff Use Only)		Title	Date	
		Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

09/23/1999

Mitigation Monitoring Form 8/93

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Biota and Habitats
4-5 Lighting System
Design lighting system to minimize glare and reduce disruptions to the designated nesting sites.

Monitoring/Reporting Frequency
LAHD/Prior to startup

Monitoring/Reporting Requirement
The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup, to the Harbor Department Environmental Management Division The compliance report shall document efforts to ensure that lighting systems at the terminal are designed to minimize glare and reduce disruptions to the designated nesting sites. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Biota and Habitats
4-6 Predator Perching
Install anti-perching devices on potential predator roosts in project area.

Monitoring/Reporting Frequency
LAHD/Prior to startup.

Monitoring/Reporting Requirement
The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup, to the Harbor Department Environmental Management Division. The compliance report shall document efforts to install anti-perching devices on potential predator roosts in project area. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
**Biota and Habitats
4-7 Elevate Nest Site
Raise the elevation of the designated nesting site in coordination with the USFWS and CDFG.**

Monitoring/Reporting Frequency
LAHD/Prior to startup.

Monitoring/Reporting Requirement
The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup, to the Harbor Department Environmental Management Division. The compliance report shall document efforts to raise the elevation of the designated California least tern nesting site. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Biota and Habitats
4-8 High Structures
Design container facility so no high structures are adjacent to the designated nesting site.

Monitoring/Reporting Frequency
LAHD/Prior to Startup

Monitoring/Reporting Requirement
The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, prior to startup, to the Harbor Department Environmental Management Division. The compliance report shall document efforts to design the facility so that no high structures are adjacent to the designated California least tern site. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Biota and Habitats
4-9 Off-Site Mitigation for Loss
Provide off-site mitigation for replacement of lost habitat through existing or new mitigation agreements.

Monitoring/Reporting Frequency
LAHD/After completion of gap fill construction.

Monitoring/Reporting Requirement
The Harbor Department Mitigation Bank Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, after completion of gap fill construction, to the Harbor Department Environmental Management Division. The compliance report shall document provide off-site mitigation for replacement of lost habitat through existing or new mitigation agreements. The Responsible Person shall be the Harbor Department Mitigation Bank Coordinator.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd In EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD		Environmental Assessment Log Number 980107-003		
Project Pier 400 Container Terminal & Transportation Corridor				
Location Pier 400		State Clearinghouse Number 98031135		
Mitigation Measure (No./Title/Description) Biota and Habitats 4-10 Off-Site Mitigation for Degradation Provide off-site mitigation for degradation of existing habitats through existing or new mitigation agreements.				
Monitoring/Reporting Frequency LAHD/Following completion of impact assessment.				
Monitoring/Reporting Requirement The Harbor Department Mitigation Bank Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, after completion of gap fill construction, to the Harbor Department Environmental Management Division. The compliance report shall document provide off-site mitigation for degradation of biological resources through existing or new mitigation agreements. The Responsible Person shall be the Harbor Department Mitigation Bank Coordinator.				
In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.				
Name and Title of Person Completing Form		Signature	Date	
Name and Title of Responsible Person		Signature	Date	
Form Received by: (LAHD Staff Use Only)		Title	Date	
		Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

09/23/1999

Mitigation Monitoring Form 8/93

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Biota and Habitats
4-11 Remove Seaplane Lagoon Groin
Remove the Seaplane Lagoon Groin

Monitoring/Reporting Frequency
LAHD/After groin removal.

Monitoring/Reporting Requirement
The Harbor Department Mitigation Bank Coordinator shall submit the appropriate Mitigation Monitoring Report form after removal of the Seaplane Lagoon groin, to the Harbor Department Environmental Management Division. Execution of the form acknowledges that the Seaplane Lagoon groin has been removed. The Responsible Person shall be the Harbor Department Mitigation Bank Coordinator.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

09/23/1999

Mitigation Monitoring Form 8/93

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Biota and Habitats
4-12 Turbidity Control
Unless specifically allowed by the CDFG and USFWS, the LAHD will not allow turbidity levels from fill activities to extend into shallow water habitat to the east of Pier 300 during the April-September breeding season of the California least tern.

Monitoring/Reporting Frequency
LAHD/Annually, in September until gap closure is complete.

Monitoring/Reporting Requirement
The Harbor Department Least Tern Coordinator shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, annually in September until gap closure is complete, to the Harbor Department Environmental Management Division. The compliance report shall document efforts to ensure that turbidity from the fill activities do not extend into the shallow water habitat to the east of Pier 300 during the April-September breeding season of the California least tern. The Responsible Person shall be the Harbor Department Least Tern Coordinator.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Noise and Vibration
5-1 None Feasible
None Feasible

Monitoring/Reporting Frequency
None/None

Monitoring/Reporting Requirement
None

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

09/23/1999

Mitigation Monitoring Form 8/93

WORLDPORT LA

Environmental Management Division
Port of Los Angeles
425 South Palos Verdes Street
San Pedro, California 90733-0151

Mitigation Monitoring Report

Tenant LAHD	Environmental Assessment Log Number 980107-003
Project Pier 400 Container Terminal & Transportation Corridor	
Location Pier 400	State Clearinghouse Number 98031135

Mitigation Measure (No./Title/Description)
Noise and Vibration
5-2 At-grade Crossings
Eliminate the at-grade crossing at Reeves Avenue, or eliminate train horns adjacent to the NMCRC, or construct a 16- to 20-foot high sound wall adjacent to the NMCRC along the railroad alignment. Measures that would eliminate the need for train horns are preferable for either the one- or two-track scenario.

Monitoring/Reporting Frequency
LAHD/Once, after construction

Monitoring/Reporting Requirement
The Harbor Department Construction Manager shall submit the appropriate Mitigation Monitoring Report form as a cover sheet of a compliance report, after completion of construction, to the Harbor Department Environmental Management Division. The compliance report will document which of the measure alternatives was adopted/constructed. The Responsible Person shall be the Harbor Department Construction Manager.

In accordance with the California Public Resources Code, Section 21081.6, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.

Name and Title of Person Completing Form	Signature	Date		
Name and Title of Responsible Person	Signature	Date		
Form Received by: (LAHD Staff Use Only)	Title	Date	Compliance Accept? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Rec'd in EMD	Date Entered in DB	Mitigation Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Completion Date	Comments

09/23/1999

Mitigation Monitoring Form 8/93

EXHIBIT B

SUSTAINABLE CONSTRUCTION GUIDELINES

	In Development	Draft	Adopted
Sustainable Development			
Green Building Policy			X
Green Leasing Requirements			X
Sustainable Planning & Design Guidelines			
Site Design	X		
Water Efficiency	X		
Energy & Atmosphere	X		
Materials & Resources	X		
Indoor Environmental Quality	X		
Lighting	X		
Sustainable Construction Guidelines			
Air Emissions		X	
Traffic	X		
Materials Management	X		
Water & Stormwater	X		
Energy	X		
Health & Safety	X		
Labor	X		
Noise	X		
Sustainable Operations			
Climate Action Plan		X	
SP Bay Clean Air Action Plan (CAAP)			X
Employee Rideshare			X
Green Terminal Program	X		
Environmental Management System			X
Clean Marina Program			X
POLA Recycling Program			X
Environmentally Preferable Purchasing Policy		X	
Renewable Energy Program	X		
Clean Water Action Plan	X		
Biological Resources Management Plan	X		
Tree Planting Program			X
Green Ports Program			X
Green Business - Sustainable Economic Development			
Green Technology Investment			
Technology Advancement Program			X
Green Business Development Opportunities			
Wilmington Waterfront Redevelopment	X		

RESOLUTION NO.

A Resolution of the Board of Harbor Commissioners of the City of Los Angeles (Board) adopting the "Los Angeles Harbor Department Sustainable Construction Guidelines for Reducing Air Emissions."

WHEREAS, the Port of Los Angeles strives to be a leader in the development and implementation of sustainable planning, design, and construction practices and is developing a Port Sustainability Program; and

WHEREAS, the Los Angeles Mayor's Executive Directive No. 10 on Sustainable Practices in the City of Los Angeles, the Board's Green Growth policy, and the San Pedro Bay Ports Clean Air Action Plan provide the framework for this effort; and

WHEREAS, the Port of Los Angeles is committed to developing and implementing planning, design, and construction practices that minimize diesel particulate matter as well as other criteria pollutants and greenhouse gases; and

WHEREAS, pursuant to this policy, these Los Angeles Harbor Department Sustainable Construction Guidelines for Reducing Air Emissions shall apply to all Los Angeles Harbor Department construction specifications advertised for bids after the adoption of this resolution; and

WHEREAS, it is intended that future resolutions will address the establishment of the Port's Sustainability Program and ultimately provide a comprehensive set of Sustainable Planning, Design, and Construction Guidelines; and

NOW, THEREFORE, be it resolved that the Board hereby adopts the attached "Los Angeles Harbor Department Sustainable Construction Guidelines for Reducing Air Emissions."

ATTEST:

President, Board of Harbor Commissioners

I HEREBY CERTIFY that the foregoing Resolution was adopted by the Board of Harbor Commissioners of the City of Los Angeles at its meeting of _____

ROSE M. DWORSHAK
Board Secretary

APPROVED AS TO FORM
FEBRUARY 15, 2008
ROCKARD J. DELGADILLO, City Attorney

By _____
DEPUTY

LOS ANGELES HARBOR DEPARTMENT
SUSTAINABLE CONSTRUCTION GUIDELINES
FOR REDUCING AIR EMISSIONS

These guidelines shall apply to all construction projects advertised for bids by the Los Angeles Harbor Department (LAHD) after the date of approval of this resolution. The LAHD is not precluded from adding additional more stringent requirements as they become available.

I. General Construction Best Management Practices (BMPs)

The LAHD shall implement a process to add Best Management Practices (BMPs) to reduce air emissions from all LAHD-sponsored construction projects. BMPs shall be based on Best Available Control Technology (BACT) guidelines and may also include changes to construction practices and design to reduce or eliminate environmental impacts. This BMP process shall be additive to the specific environmental measures provided in Section II below. On an annual basis the LAHD shall review the specific environmental measures below and incorporate BMPs wherever possible.

Post-bid and on a project-specific basis, the LAHD shall review the contractor's BMPs once the contractor identifies and secures a final equipment list and project scope. The LAHD shall then meet with the contractor to identify potential BMPs and work with the contractor to include such measures in the contract where feasible.

II. Specific Environmental Measures

In addition to the above described BMPs, the following specific environmental measures and/or practices shall be included in LAHD construction specifications where applicable.

Vessels

All ships & barges used primarily to deliver construction-related materials to a LAHD-contractor construction site shall comply with the expanded Vessel Speed Reduction Program (VSRP) of 12 knots from 40 nautical miles (nm) from Point Fermin to the Precautionary Area.

These ships must also use low-sulfur fuel (maximum sulfur content of 0.2 percent) in auxiliary engines, main engines, and boilers within 40 nm of Point Fermin.

Harbor Craft

Prior to December 31, 2010: All harbor craft with C1 or C2 marine engines must achieve a minimum emission reduction equivalent to a U.S. Environmental Protection Agency (EPA) Tier-2 2004 level off-road marine engine.

From January 1, 2011 on:

All harbor craft with C1 or C2 marine engines must utilize a U.S. EPA Tier-3 engine, or cleaner.

Dredging Equipment

All dredging equipment shall be electric.

On-Road Trucks

Prior to December 31, 2011:

All on-road heavy-duty diesel trucks with a gross vehicle weight rating (GVWR) of 19,500 pounds or greater used at the Port of Los Angeles shall comply with EPA 2004 on-road emission standards for PM10 and NOx (0.10 g/bhp-hr PM10 and 2.0 g/bhp-hr NOx).

In addition, all on-road heavy heavy-duty trucks with a gross vehicle weight rating (GVWR) of 19,500 pounds or greater used at the Port of Los Angeles shall be equipped with a CARB verified Level 3 device.

From January 1, 2012 on:

All on-road heavy-duty diesel trucks with a gross vehicle weight rating (GVWR) of 19,500 pounds or greater used at the Port of Los Angeles shall comply with EPA 2007 on-road emission standards for PM10 and NOx (0.01 g/bhp-hr and 0.20 g/bhp-hr).

In addition, all heavy heavy-duty on-road trucks with a gross vehicle weight rating (GVWR) of 19,500 pounds or greater used on-site or to transport materials to and from the Port of Los Angeles shall be equipped with a CARB verified Level 3 device.

Construction Equipment (excluding on-road trucks)

Prior to December 31, 2011:

All off-road diesel-powered construction equipment greater than 50 horsepower (hp), except derrick barges and marine vessels, shall meet Tier-2 emission off-road emission standards, at a minimum. In addition, all construction equipment greater than 50 hp, shall be retrofitted with a CARB -certified Level 3 diesel emissions control device.

All construction equipment shall be maintained according to manufacturers' specifications.

Construction equipment shall not idle more than 5 minutes when not in use.

High-pressure fuel injectors shall be installed on construction equipment vehicles.

From January 1, 2012 to December 31, 2014:

All off-road diesel-powered construction equipment greater than 50 hp, except ships and barges and marine vessels, shall meet Tier-3 emission off-road emission standards, at a minimum. In addition, all construction equipment greater than 50 horsepower (hp), shall be retrofitted with a CARB certified Level 3 diesel emissions control device.

All construction equipment shall be maintained according to manufacturers' specifications.

Construction equipment shall not idle more than 5 minutes when not in use.

High-pressure fuel injectors shall be installed on construction equipment vehicles.

From January 1, 2015 on:

All off-road diesel-powered construction equipment greater than 50 hp, except ships and barges and marine vessels, shall meet Tier-4 emission off-road emission standards, at a minimum. In addition, all construction equipment greater than 50 hp, shall be retrofitted with a CARB certified Level 3 diesel emissions control device.

All construction equipment shall be maintained according to manufacturers' specifications.

Construction equipment shall not idle more than 5 minutes when not in use.

High-pressure fuel injectors shall be installed on construction equipment vehicles.

Exceptions to Harbor Craft, On-Road Truck, and Construction Equipment (excluding on-road trucks) Requirements

The above measures shall be met, unless one of the following circumstances exists and the contractor is able to provide proof that any of these circumstances exists:

- 1 A piece of specialized equipment is unavailable in a controlled form, or within the required Tier level within the state of California, including through a leasing agreement.
- 2 A contractor has applied for necessary incentive funds to put controls on a piece of uncontrolled equipment planned for use on the project, but the application process is not yet approved, or the application has been approved, but funds are not yet available.
- 3 A contractor has ordered a control device for a piece of equipment planned for use on the project, or the contractor has ordered a new piece of controlled equipment to replace the uncontrolled equipment, but that order has not been completed by the manufacturer or dealer. In addition, for this exemption to apply, the contractor must attempt to lease controlled equipment to avoid using uncontrolled equipment, but no dealer within 200 miles of the project has the controlled equipment available for lease.

Fugitive Dust Control

SCAQMD Rule 403 requires a Fugitive Dust Control Plan be prepared and approved for construction sites. The following measures to reduce dust should be included in this plan, at a minimum:

- SCAQMD's Best Available Control Technology (BACT) measures must be followed on all projects. They are outlined on Table 1 in Rule 403. Large construction projects (on a property which contains 50 or more disturbed acres) shall also follow Rule 403 Tables 2 and 3.
- Active grading sites shall be watered three times per day.
- Contractors shall apply approved non-toxic chemical soil stabilizers to all inactive construction areas or replace groundcover in disturbed areas.
- Contractors shall provide temporary wind fencing around sites being graded or cleared.
- Trucks hauling dirt, sand, or gravel shall be covered or shall maintain at least 2 feet of freeboard in accordance with Section 23114 of the California Vehicle Code. ("Spilling Loads on Highways").
- Construction contractors shall install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off tires of vehicles and any equipment leaving the construction site.
- The grading contractor shall suspend all soil disturbance activities when winds exceed 25 mph or when visible dust plumes emanate from a site; disturbed areas shall be stabilized if construction is delayed.
- Open storage piles (greater than 3 feet tall and a total surface area of 150 square feet) shall be covered with a plastic tarp or chemical dust suppressant.
- Stabilize the materials while loading, unloading and transporting to reduce fugitive dust emissions.
- Belly-dump truck seals should be checked regularly to remove trapped rocks to prevent possible spillage.
- Comply with track-out regulations and provide water while loading and unloading to reduce visible dust plumes.
- Waste materials should be hauled off-site immediately.