

## Appendix F List of Acronyms and Abbreviations

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°C	degrees Celsius
°F	degrees Fahrenheit
µg/m <sup>3</sup>	micrograms per cubic meter
AADT	average annual daily trips
AAQS	ambient air quality standards
AB	Assembly Bill
ac	acre/acres
ACHP	Advisory Council on Historic Preservation
ACM	asbestos-containing materials
ACS	American Community Survey
ADA	Americans with Disabilities Act
ADL	aerially deposited lead
ADT	average daily traffic
APE	Area of Potential Effects
APN	Assessor's Parcel Number
AQMP	air quality management plan
ARB	California Air Resources Board
ASE	National Institute for Automotive Service Excellence
ASR	Archaeological Survey Report
BACT	Best Available Control Technology
Basin	South Coast Air Basin
Basin Plan	Santa Ana Region Basin Plan
BAU	Business as Usual
BIOL	biological habitats of special significance
BMPs	Best Management Practices
BO	Biological Opinion
BSA	biological study area
CAAA	Clean Air Act Amendments
CAFE	Corporate Average Fuel Economy
CAL FIRE	California Department of Forestry and Fire Protection

Cal/EPA	California Environmental Protection Agency
Cal/OSHA	California Occupational Safety and Health Administration
California Register	California Register of Historical Resources
Cal-IPC	California Invasive Plant Council
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CASSA	Criteria Area Species Survey Area
CCAA	California Clean Air Act
CCR	California Code of Regulations
CD	Collector Distributor
CDFW	California Department of Fish and Wildlife
CDMG	California Division of Mines and Geology
CDPH	California Department of Public Health
Census Bureau	United States Census Bureau
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERFA	Community Environmental Response Facilitation Act (1992)
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CGP	Construction General Permit
CGS	California Geological Survey
CH <sub>4</sub>	methane
CHL	California Historical Landmarks
CHP	California Highway Patrol
CHRIS	California Historical Resources Information System
CIDH	cast-in-drilled hole
CMP	Congestion Management Plan
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO Protocol	1997 Transportation Project-Level Carbon Monoxide Protocol
CO-CAT	Coastal and Ocean Working Group of the California Climate Action Team

CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
COMM	commercial and sport fishing
Corps	United States Army Corps of Engineers
CPHI	California Points of Historical Interest
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CRPR	California Rare Plant Rank
CTP	California Transportation Plan
CWA	Clean Water Act
cy	cubic yard(s)
dB	decibel(s)
dBA	A-weighted decibel(s)
dBA <sub>Leq</sub>	equivalent continuous sound level measured in A-weighted decibels
DDT	dichlorodiphenyltrichloroethane
DEOG	diesel exhaust organic gases
Desk Guide	<i>Environmental Justice in Transportation Planning and Investments Desk Guide</i>
DHHS	Department of Health and Human Services
DOI	United States Department of the Interior
DPM	diesel particulate matter
DRIS	Draft Relocation Impact Statement
DSA	Disturbed Soil Area
DTSC	Department of Toxic Substances Control
EA	Environmental Assessment
EB	eastbound
EBL	eastbound left
EBR	eastbound right
EBT	eastbound through
EDR	Environmental Data Resources, Inc.
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EMFAC	Emission Factors
EO	Executive Order

EOS	edge of shoulder
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
EST	estuarine habitat supporting estuarine ecosystems
ETWD	El Toro Water District
EW	Existing Wall
FCAA	Federal Clean Air Act
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FIRM	Flood Insurance Rate Map
FONSI	Finding of No Significant Impact
ft	foot/feet
ft/sec <sup>2</sup>	feet per second squared
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
FY	Fiscal Year
g	common value of acceleration equal to 32 feet/second <sup>2</sup>
GHG	greenhouse gases
GIS	geographic information systems
GP	general purpose
Guidelines	(EPA's) Section 404 (b)(1) Guidelines
GWP	Global Warming Potential
GWR	Groundwater Recharge
H&SC	California State Health and Safety Code
H <sub>2</sub> S	hydrogen sulfide
HAs	Hydrologic Areas
HCM	<i>Highway Capacity Manual</i>
HCP	Habitat Conservation Plan
HDM	<i>Highway Design Manual</i>
HEI	Health Effects Institute
HMMP	Habitat Mitigation and Monitoring Plan
HOT	high-occupancy toll

HOV	high-occupancy vehicle
HPSR	Historic Property Survey Report
hr	hour
HRER	Historical Resources Evaluation Report
HRI	California State Historic Resources Inventory
HSAs	Hydrologic Subareas
HUD	United States Department of Housing and Urban Development
HUs	Hydrologic Units
I-5	Interstate 5
I-110	Interstate 110
I-405	Interstate 405
I-710	Interstate 710
ICU	Intersection Capacity Utilization
ILFP	in lieu fee program
in/sec	inches per second
IND	waters used for industrial activities that do not depend primarily on water quality
IPCC	Intergovernmental Panel on Climate Change
IRIS	Integrated Risk Information System
ISA	Initial Site Assessment
IS/EA	Initial Study/Environmental Assessment
ITS	Intelligent Transportation Systems
JD	Jurisdictional Delineation
JOST	Jeffrey Open Space Trail
JWA	John Wayne Airport
L&WCF	Land and Water Conservation Fund
LACM	Natural History Museum of Los Angeles County
LBP	lead-based paint
lbs/day	pounds per day
LED	Light Emitting Diode
LEDPA	least environmentally damaging practicable alternative
LEHD	(U.S. Census Bureau's) Longitudinal Employer-Household Dynamics (Program)

Leq	equivalent continuous noise level
Leq(h)	1-hour A-weighted equivalent continuous sound level
LID	Low Impact Development
L <sub>max</sub>	maximum instantaneous noise level
LOP	Letter of Permission
LOS	level(s) of service
LOSSAN	Los Angeles to San Diego
LOTB	Log-of-Test-Borings
LPS	Locally Preferred Strategy
LRTP	Long Range Transportation Plan
LT	Long-term (noise monitoring)
LTRMP	Long-Term Resource Management Plan
LUST	leaking underground storage tank
m	meter(s)
M2	Measure M Transportation Investment Plan
MAR	marine habitat
MBTA	Migratory Bird Treaty Act
MCAS	Marine Corps Air Station
MEP	maximum extent practicable
mg/L	milligrams per liter
mg/m <sup>3</sup>	milligrams per cubic meter
mgd	million gallons per day
mi	mile(s)
MIS	Major Investment Study
MLD	Most Likely Descendant
MM	Mitigation Measure
MMT	million metric tons
MMT CO <sub>2e</sub>	million metric tons of carbon dioxide equivalent
MND	Mitigated Negative Declaration
MNWD	Moulton Niguel Water District
MOU	Memorandum of Understanding
mpg	miles per gallon
mph	miles per hour
MPO	Metropolitan Planning Organization
MS4	Municipal Separate Storm Sewer System
MSAT	Mobile Source Air Toxics

MT	metric tons
MT CO <sub>2</sub> e	metric tons of carbon dioxide equivalent:
MTBE	methyl tertiary-butyl ether
MUN	Municipal and Domestic Supply
mya	million years ago
N/A	not applicable
N <sub>2</sub> O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAC	noise abatement criteria
NADR	Noise Abatement Decision Report
NAHC	Native American Heritage Commission
NATA	National Air Toxics Assessment
National Register	National Register of Historic Places
NAV	shipping, travel or other transportation by private, commercial, or military vessels
NB	Noise Barrier
NBL	northbound left
NBR	northbound right
NBT	northbound through
NCCP/HCP	Natural Communities Conservation Plan/Habitat Conservation Plan
NEPA	National Environmental Policy Act (of 1969)
NEPSSA	Narrow Endemic Plant Species Survey Area
NES	Natural Environment Study
NESHAPs	National Emission Standards for Hazardous Air Pollutants
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NISZ	Newport Inglewood Structural Zone
No.	number
NO <sub>2</sub>	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOAA Fisheries Service	National Oceanic and Atmospheric Administration's National Marine Fisheries Service
NOI	Notice of Intent
NOP	Notice of Preparation
NOT	Notice of Termination

NO <sub>x</sub>	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List
NRHP	National Register of Historic Places
NSR	Noise Study Report
NWP	Nationwide Permit
O <sub>3</sub>	ozone
OCHCA	Orange County Health Care Agency
OCPW	Orange County Public Works
OCTA	Orange County Transportation Authority
OHWM	ordinary high water mark
OPR	Governor's Office of Planning and Research
OSHA	Occupational Safety and Health Act
OSTP	Office of Science and Technology Policy
PA	Programmatic Agreement
PA&ED	Project Approval and Environmental Documentation
PA/ED	Project Approval/Environmental Documentation
Pb	lead
PCBs	polychlorinated biphenyls
PCE	tetrachloroethylene
PDT	Project Development Team
PF	Project Feature
PGA	peak ground acceleration
pH	percentage of hydrogen
Pilot Program	Surface Transportation Project Delivery Pilot Program
PIR/PER	Paleontological Resources Identification and Evaluation Report
PL	property line
PLACs	Permits, Licenses, Agreements, and Certifications
PM	particulate matter or post mile
PM <sub>10</sub>	particulate matter less than 10 microns in size
PM <sub>2.5</sub>	particulate matter less than 2.5 microns in size
PMP	Paleontological Mitigation Plan
POAQC	Project Of Air Quality Concern
POM	polycyclic organic matter



Porter-Cologne Act	California Porter-Cologne Water Quality Control Act
ppb	parts per billion
ppm	parts per million
PPV	peak particle velocity
PRC	California Public Resources Code
PROC	Waters used for industrial activities that depend primarily on water quality
proposed project	Interstate 5 Project Approval/Environmental Document Project between Interstate 405 and State Route 55
PS&E	Plans, Specifications, and Estimates
R	(noise monitoring) Receptor
RAP	Relocation Assistance Program
RARE	habitat for rare, threatened, or endangered species
RC	Resource Change
RCEM	Roadway Construction Emissions Model
RCNM	Roadway Construction Noise Model
RCRA	Resource Conservation and Recovery Act (1976)
REC	Recognized Environmental Condition or water-contact recreation
REC-1	contact water recreation
REC-2	non-contact water recreation
ROG	reactive organic gases
ROW	right-of-way
RSA	resource study area
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
RWQCB	Regional Water Quality Control Board
SAA	Streambed Alteration Agreement
SAMP	Special Area Management Plan
SB	Senate Bill
SB	southbound
SBL	southbound left
SBR	southbound right

SBT	southbound through
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SCG	Southern California Gas
SCRRA	Southern California Regional Rail Authority
SCS	Sustainable Communities Strategy
SDC	Seismic Design Criteria
Section 106	Section 106 of the National Historic Preservation Act of 1966
SER	(Caltrans) Standard Environmental Reference
sf	square foot/feet
SF <sub>6</sub>	sulfur hexafluoride
SFPP	Santa Fe Pacific Pipeline Partners
SHEL	shellfish harvesting
SHPO	State Historic Preservation Office (Officer)
SIP	State Implementation Plan
SLF	Sacred Lands File
SLR	Sea-level rise
SMAQMD	Sacramento Metropolitan Air Quality Management District
SMARTS	Storm Water Multiple Application and Report Tracking System
SO <sub>2</sub>	sulfur dioxide
SPWN	spawning or early development areas for aquatic organisms
sq mi	square mile(s)
SR-22	State Route 22
SR-55	State Route 55
SR-57	State Route 57
SR-91	State Route 91
SR-133	State Route 133
SR-261	State Route 261
SSP	(Caltrans) Standard Special Provisions
ST	Short-term (noise monitoring)
SVE	soil vapor extraction
SVP	Society of Vertebrate Paleontology
SWMP	Statewide Storm Water Management Plan

SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TCE	temporary construction easement
TCE	trichloroethylene
TCR	Transportation Concept Report
TCWG	Transportation Conformity Working Group
TDM	Transportation Demand Management
TDS	Total Dissolved Solids
TIP	Transportation Improvement Program
TMC	Transportation Management Center
TMDL	Total Maximum Daily Loads
TMP	Transportation Management Plan
TNM	Traffic Noise Model
Traffic Noise Analysis Protocol	Caltrans <i>Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects</i>
TSCA	Toxic Substances Control Act
TSM	Transportation Systems Management
U.S.	United States
U.S. Census Bureau	United States Census Bureau
U.S. EPA	United States Environmental Protection Agency
UBC	Uniform Building Code
Uniform Act	Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970
UPRR	Union Pacific Railroad
USACE	United States Army Corps of Engineers
USC	United States Code
USDOT	United States Department of Transportation
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
USPS	United States Postal Service
UST	underground storage tanks
v/c	volume-to-capacity ratio
VA	Value Analysis
VHT	vehicle hours traveled

VIA	Visual Impact Assessment
VMT	vehicle miles traveled
VOCs	volatile organic compounds
vph/lane	vehicles per hour per lane
WARM	Warm Freshwater Habitat
Water(s) of the U.S.	Water(s) of the United States
WB	westbound
WBR	westbound right
WBL	westbound left
WBT	westbound through
WDR	Waste Discharge Requirements
WILD	habitat for wild plants and animals
WQMP	Water Quality Management Plan
WQS	Water Quality Standards
WSAA	Watershed Streambed Alteration Agreement