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## CHAPTER 9.0 LIST OF ACRONYMS AND ABBREVIATIONS

°F	degrees Fahrenheit
4F	Section 4(f) Evaluation
AA	Alternatives Analysis
AASHTO	American Association of State Highway and Transportation Officials
AB	Assembly Bill
ACB	articulated concrete block
ACM	Asbestos Containing Material
ADA	Americans with Disabilities Act
ADR	Land Acquisitions, Displacements, and Relocations
AEP	annual exceedance probability
AFY	acre feet per year
AG	Agricultural Resources
Alquist-Priolo Act	Alquist-Priolo Special Studies Zone Act
ALUCP	Airport Land Use Comprehensive Plan
AMSL	above mean sea level
AP	Alquist-Priolo
APE	Area of potential effect
APN	Assessor's parcel number
AQ	Air Quality
AQMP	Air Quality Management Plan
AR	Airport Safety Review Area
AREMA	American Railway Engineering and Maintenance-of-Way Association
ASB	California Contractor License
ASPBR	San Bernardino County Paleontological Background Report
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
AT&SF	Atchison Topeka & Santa Fe Railroad or "Redlands Spur"
B	beneficial impact
BACT	Best Available Control Technology
BCC	Birds of Conservation Concern
BIO	Biology and Wetland Resources
BMPs	Best Management Practices
BNSF	Burlington Northern and Santa Fe Railway
Bridge 1.1	Historic Warm Creek
Bridge 2.2	Twin Creek
Bridge 3.2	Santa Ana River
Bridge 3.9	Gage Canal
Bridge 5.78	Bryn Mawr Bridge
Bridge 9.4	Mill Zanja Creek
BRT	Rapid Bus Transit
BTR	Biological Technical Report
BUOW	Burrowing Owl
CAA	Clean Air Act



CAAQS	California Ambient Air Quality Standards
CAL ARP	California Accidental Release Prevention Program
CAL EPA	California Environmental Protection Agency
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBC	California Building Code
CCAA	California Clean Air Act
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CERFA	Community Environmental Response Facilitation Act of 1992
CFP	California Department of Fish and Game Fully Protected
CFR	Code of Federal Regulations
cfs	cubic feet per second
CGS	California Geological Survey
CH <sub>4</sub>	methane
CIDH	cast-in-drilled hole
CIP	cast-in-place
CISS	cast-in-steel shell
CM	Cumulative Impacts
CMAQ	Congestion Management and Act Quality Improvement Program
CMF	Central Maintenance Facility
CMP	Congestion Management Program
CN	Community & Neighborhood Impacts
CNDDB	California Natural Diversity Database
CNEL or L <sub>dn</sub>	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
COA	Comprehensive Operational Analysis
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
CP	Cajon Pass
CPUC	California Public Utilities Commission
CRHR	California Register of Historic Resources
CSRR	California Southern Railroad
CTC	California Transportation Commission
CTR	California Toxics Rule
CTSGP	California Transit Security Grant Program
CUL	Cultural & Historic Resources
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
cy	cubic yards
dB	decibel
dBA	A-weighted sound pressure level



DH	Disturbed Habitat
DNL	day-night average sound level
DOC	Department of Conservation
DODS	Department of Dam Safety
DOT	Department of Transportation
DMU	diesel multiple unit
DPM	diesel particulate matter
DRSP	Downtown Redlands Specific Plan
DSBPRP	Downtown San Bernardino Passenger Rail Project
DTSC	Department of Toxic Substances Control
EA	Environmental Assessment
EDD	Employment Development Department
EF	Economic & Fiscal Impacts
EG	egress easement
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EJ	Environmental Justice
EMD	Emergency Medical Dispatch
EMF	Eastern Maintenance Facility
EMFAC	Emission FACtors
EN	Energy
EPA	Environmental Protection Agency
ESA	Endangered Species Act
ESAU	Environmental Site Assessment Update
EVA	emergency vehicle access easement
EVCSP	East Valley Corridor Specific Plan
EVWD	East Valley Water District
FAA	Federal Aviation Administration
FAR	floor area ratio
FE	Federally Endangered
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FHSZ	Fire Hazard Severity Zone
FHWA	Federal Highway Administration
FIA	Federal Insurance Administration
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FIRMs	Flood Insurance Rate Maps
FMMP	Farmland Mapping and Monitoring Program
FPPA	Farmland Protection Policy Act
FRA	Federal Railroad Administration
FS	Fire Safety
FSZ	Farmland Security Zone
FT	Federally Threatened
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
GCOR	General Code of Operating Rules
GEO	Geology & Soils
GHGs	greenhouse gases
gpd	gallons per day



GPR	ground-penetrating radar
Gr	Grangeville fine sandy loam
Gs	Grangeville fine sandy loam, saline-alkali
HA	Hydrologic Area
HaC	Hanford coarse sandy loam, 2-9 percent slopes
HAP	hazardous air pollutants
HAZ	Hazardous Waste & Materials
HbA	Hanford sandy loam, 0-2 percent slopes
HCM	Highway Capacity Manual
HCP	Habitat Conservation Plan
HHS	Department of Health and Human Services
HMMP	Hazardous Materials Management Plan
HOV	High Occupancy Vehicle
HQTA	High Quality Transit Area
HRA	Health Risk Assessment
HREC	Historic Recognized Environmental Concern
HSA	Hydrologic Sub Areas
HVAC	heating, ventilation, and air-conditioning
HWCL	Hazardous Waste Control Law
HWP	Hazardous Waste Permitted-facility
HWT	Hazardous Waste Transporter
HYD	Floodplain and Hydrology
I-10	Interstate 10
IAC	interagency consultation
ICBO	International Conference of Building Officials
ICCTA	Interstate Commerce Commission Termination Act
IE	Industrial Extractive
IEMF	Inland Empire Maintenance Facility
IEOC	Inland Empire-Orange County
IG	ingress easement
IL	Industrial Light
ISO	California Independent System Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ISWMP	Integrated Solid Waste Management Program
kV	kilovolt
kWh	kilowatt hours
LASD	Los Angeles County Sheriff's Department
LBV	Least's Bell vireo
LCFS	Low Carbon Fuel Standard
Ldn	day-night average sound level
LED	light emitting diode
Leq	equivalent sound level
Leq(h)	equivalent sound level, typically specified for 1 hour
LID	low impact development
LOS	Level of Service
LPA	Locally Preferred Alternative
LRA	Local Responsibility Area
LRT	Light Rail Transit
LST	localized significant threshold



LTF	Local Transportation Funds
LTS	less than significant
LTSM	less than significant after mitigation
LU	Land Use & Planning
LUST	Leaking Underground Storage Tank
MAP-21	Moving Ahead for Progress in the 21st Century
MARTA	Mountain Area Regional Transit Authority
MATES III	Multiple Air Toxics Exposure Study III
MBTA	Migratory Bird Treaty Act
MCE	maximum considered earthquake
MGD	million gallons per day
mg/m <sup>3</sup>	milligrams per cubic meter
MM	mitigation measure
MMRP	Mitigation Monitoring and Report Program
MOU	Memorandum of Understanding
MOW	Maintenance of the railroad ROW
MP	Mile Post
mpg	miles per gallon
mph	miles per hour
MPO	Metropolitan Planning Organization
MRZs	Mineral Resource Zones
MS4 Permit	Municipal Separate Storm Sewer Systems
MSAT	mobile source air toxics
MSDS	Materials Safety and Data Sheets
MSL	mean sea level
MT	metric tons
MTA	Metropolitan Transportation Authority
MUTCD	Manual on Uniform Traffic Control Devices
mw	megawatts
NAAQS	National Ambient Air Quality Standards
NCCP	Natural Community Conservation Plan
NCP	National Contingency Plan
NEHRP	National Earthquake Hazard Reduction Program
NEHRPA	National Earthquake Hazard Reduction Program Act
NEPA	National Environmental Policy Act
NFIP	National Flood Insurance Program
NHPA	National Historic Preservation Act
NI	no impact
NMTP	Non-Motorized Transportation Plan
NNG	Non-native Grassland
NOI	Notice of Intent
NOP	Notice of Preparation
NO <sub>x</sub>	nitrogen oxide
N <sub>2</sub> O	nitrous oxide
NO <sub>2</sub>	nitrogen dioxide
NPDES	National Pollutant Discharge Elimination System
NRCS	National Resource Conservation Service
NRHP	National Register of Historic Places
NV	Noise and Vibration



O <sub>3</sub>	ozone
O&M	operations and maintenance
OCDs	Ozone Depleting Compounds
OCTA	Orange County Transit Authority
OEHHA	Office of Environmental Health Hazard Assessment
OHP	Office of Historic Preservation
OHWM	Ordinary High Water Mark
OPR	Office of Planning and Research
OSHA	Occupational Safety and Health Administration
PADS	PCB Activity Database
PAHs	polycyclic aromatic hydrocarbons
Pb	lead
PCE	passenger car equivalents
PCS	Parklands & Community Services & Facilities
PE	permanent easement
PEIR	Program Environmental Impact Report
PGA	Peak Horizontal Ground Accelerations
Phase 1	Environmental Site Assessment
PM <sub>2.5</sub>	particulate matter less than 2.5 microns in diameter
PM <sub>10</sub>	particulate matter less than 10 microns in diameter
Porter-Cologne Act	Porter-Cologne Water Quality Control Act of 1969
POAQC	Project of Air Quality Concern
PPD	annual per capita disposal rate per employee
ppm	parts per million
PPV	peak particle velocity
PRC	Public Resources Code
PRD	Permit Registration Documents
Ps	Psammets and fluvents
PTC	positive train control
PTMISEA	Public Transportation Modernization, Improvement, and Service Enhancement Program
RCAA	Redlands Corridor Alternatives Analysis
RCB	reinforced concrete box culvert
RCC	rectangular concrete channel
RCP	Regional Comprehensive Plan
RCPG	Regional Comprehensive Plan and Guide
RCRA	Resource Conservation and Recovery Act of 1976
REC	Recognized Environmental Concern
RFD	Redlands Fire Department
RMS	root-mean square
RMUED	The City of Redlands Municipal Utilities and Engineering Department
ROD	Record of Decision
ROG	reactive organic gases
ROW	right-of-way
RPD	Redlands Police Department
RPLI	Regional Paleontologic Locality Index
RPRP	Redlands Passenger Rail Project
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan



RTPA	Regional Transportation Planning Agency
RUSD	Redlands Unified School District
RWQCB	Regional Water Quality Control Boards
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act – A Legacy for Users
SANBAG	San Bernardino Associated Governments
SAR	Santa Ana River
SARA	Superfund Amendments and Reauthorization Act
SART	Santa Ana River Trail
SAS	Santa Ana sucker
SAWPA	Santa Ana Watershed Project Authority
SB	Senate Bill
SBAIC	San Bernardino Archaeological Information Center
SBCFCD	San Bernardino County Flood Control District
SBCFD	San Bernardino County Fire Department
SBCUSD	San Bernardino City Unified School District
SBD	San Bernardino International Airport
SBFD	San Bernardino Fire Department
SBGPU	San Bernardino's General Plan Update
SBKR	San Bernardino kangaroo rat
SBMWD	San Bernardino Municipal Water Department
SBPD	San Bernardino Police Department
SBUSD	San Bernardino Unified School District
SBVMWD	San Bernardino Valley Municipal Water District
sbX BRT	San Bernardino bus rapid transit
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCBR	County of San Bernardino Conservation Background Report
SCE	Southern California Edison
SCEA	Sustainable Communities Environmental Assessment
SCH	State Clearinghouse
SCRRA	Southern California Regional Railroad Authority
SCS	Sustainable Communities Strategy
SCWRF	Southern Cottonwood Willow Riparian Forest
SE	State Endangered
SHPO	State Historic Preservation Officer
SIC	Standard industrial classification
SIP	State Implementation Plan
SLIC	Spills, Leaks, Investigations and Cleanup
SMARA	Surface Mining and Reclamation Act
SO <sub>2</sub>	sulfur dioxide
SP	Southern Pacific Railroad
SPA	Specific Plan Amendment
SPCC	Spill Prevention Control and Countermeasure Plan
SPF	standard project flood
SRA	supplemental risk assessment
SS	Safety & Security
SSC	State Species of Concern



SSMs	Supplemental Safety Measures
SSPP	System Safety Program Plan
ST	State Threatened
STA	State Transit Assistance
STB	Surface Transportation Board
STC	Sound Transmission Class
STIP	State Transportation Improvement Program
STPs	shovel test pits
ST VAC	street vacation
SU	significant and unmitigable
SF <sub>6</sub>	sulfur hexafluoride
SWFL	Southwestern willow flycatcher
SWP	State Water Project
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
SWS	Southern Willow Scrub
TAC	Toxic Air Contaminants
TAZ	Traffic Analysis Zone
TCE	temporary construction easement
TCMs	transportation control measures
TD	Transit Overlay District
TDM	Travel Demand Management
TDS	total dissolved solids
TIP	Transportation Improvement Program
TMDL	total maximum daily load
TNM	Traffic Noise Model
TOD	transit oriented development
TPP	Transit Priority Project
TR	Transportation
TRB	Transportation Research Board
TSA	Transportation Security Administration
TuB	Tujunga gravelly loamy sand, 0-9 percent slopes
TvC	Tujunga loamy sand, 0-5 percent slopes
UBC	Uniform Building Code
UD	Urban/Developed
UFC	Uniform Fire Code
µg/m <sup>3</sup>	microgram per cubic meter
Uniform Act	Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended
UP	Union Pacific
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USDOT	U.S. Department of Conservation
USEPA	U.S. Environmental Protection Agency
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UST	underground storage tank
UT	Utilities



UWMP	Urban Water Management Planning Act
V/C	volume to capacity ratio
VdB	velocity decibel
VHT	vehicles hours traveled
VIA	Visual Impact Assessment
VMT	vehicle miles traveled
VOCs	volatile organic compounds
VQA	Visual Quality & Aesthetics
VVTA	Victor Valley Transit Authority
Williamson Act	California Land Conservation Act
WQ	Water Quality
WQMP	Water Quality Management Plan
WRP	water reclamation plant
WWTP	Redlands Wastewater Treatment Plant
WYBC	Western Yellow-Billed Cuckoo
Z2DA	Zone 2 Drainage Area
Z3DA	Zone 3 Drainage Area



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