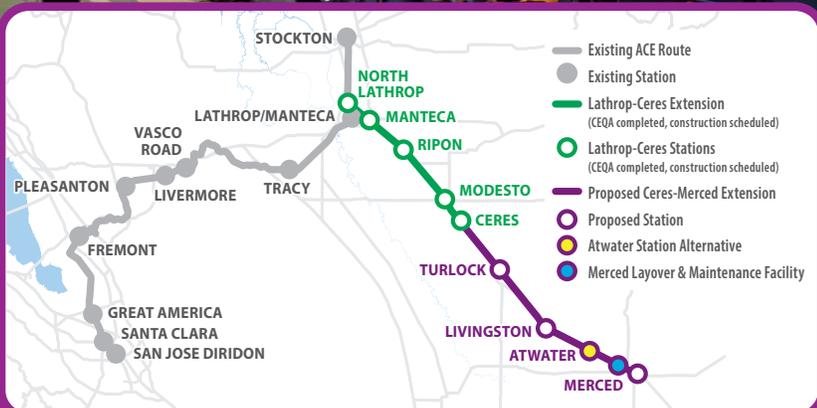


ACE Ceres-Merced Extension Project Draft Environmental Impact Report

SCH #2018012014



DRAFT ENVIRONMENTAL IMPACT REPORT

SAN JOAQUIN REGIONAL RAIL COMMISSION

ACE CERES-MERCED EXTENSION PROJECT

STATE CLEARINGHOUSE #2018012014

PREPARED FOR:



San Joaquin Regional Rail Commission
949 East Channel Street
Stockton, CA 95202
Contact: Dan Leavitt
MercedEXTComments@acerail.com

PREPARED BY:



ICF
201 Mission Street, Suite 1500
San Francisco, CA 94105
Contact: Rich Walter

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Acronyms and Abbreviations

µg/m ³	micrograms per cubic meter
AASHTO	American Association of State Highway and Transportation Officials
AB	Assembly Bill
ABAG	Association of Bay Area Governments
ACE	Altamont Corridor Express
ACE	Areas of Conservation Emphasis
ACM	asbestos containing material
ACM	asbestos-containing materials
ADA	Americans with Disabilities
AIA	airport influence area
ALS	advanced life support
ALUPC	airport land use compatibility plan
ARB	California Air Resources Board
AREMA	American Railroad Engineering and Maintenance-of-Way Association
ASCE	American Society of Civil Engineers
ASTM	American Society for Testing and Materials
AVE	area of visual effect
B	ballast
BA	biological assessment
BAAQMD	Bay Area Air Quality Management District
BAAQMD	Bay Area Air Quality Management District
BART	Bay Area Rapid Transit
BAT	best available technology economically achievable
Bay Area	San Francisco Bay Area
BCF	billion cubic feet
BCT	best conventional pollutant control technology
Bgs	below ground surface
BLM	Bureau of Land Management
BLS	basic life support
BM	building material
BMP	best management practices
BO	biological opinion
Board	SJRRC Board
BRWL	blue-rich white light lamps
Btu	British thermal units
BZP	border zone property
C&d	construction and demolition
C.F.R.	Code of Federal Regulations
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards

CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CAISO	California Independent System Operator
Cal Public Res. Code	California Public Resources Code
Cal. Code Regs.	California Code of Regulations
Cal. Gov. Code	California Government Code
Cal/EPA	California Environmental Protection Agency
CAL/OSHA	California Department of Occupational Safety and Health
Cal/OSHA	California Division of Occupational Safety and Health
Cal/OSHA	California's Division of Occupational Safety and Health
CALFIRE	California Department of Forestry and Fire Protection
California CAA	California Clean Air Act
CalOES	California Office of Emergency Services
CalSTA	California State Transportation Authority
Caltrans	California Department of Transportation
Carl Moyer Program	Carl Moyer Memorial Air Quality Standards Attainment Program
CBIA v. BAAQMD	California Building Industry Association vs. Bay Area Air Quality Management District
CCAs	Community Choice Aggregators
CCED	California Conservation Easement Database
CCR	California Code of Regulations
CCTA	Contra Costa Transportation Authority
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
Central Valley Water Board	Central Valley Regional Water Quality Control Board
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CGS	California Geological Survey
CH ₄	methane
CMP	congestion management program
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNG	compressed natural gas
CNPS	California Native Plant Society
CO Protocol	California Department of Transportation (Caltrans) Institute of Transportation Studies Transportation Project-Level Carbon Monoxide Protocol
CO	carbon monoxide
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
COGs	councils of governments
CPUC	California Public Utilities Commission

CRHR	California Register of Historical Resources
CRMP	construction risk management plan
CUPA	Certified Unified Program Agencies
CVFPB	Central Valley Flood Protection Board
CVFPP	Central Valley Flood Protection Plan
CWA	Clean Water Act (CWA) of 1972
Db	decibel
dBA	A-weighting decibel
dBa	A-weighting decibel
DBH	diameter at breast height
Delta	Sacramento–San Joaquin Delta
DHS	Department of Homeland Security
DOGGR	California Division of Oil, Gas, & Geothermal Resources
DP	distributive power
DPM	diesel particulate matter
DPR	California Department of Pesticide Regulation
DTSC	California Department of Toxic Substances
DTSC	Department of Toxic Substances Control
DWR	California Department of Water Resources
EFH	essential fish habitat
EFs	California’s Emergency Function Annexes
EFZ	earthquake fault zone
EIR	environmental impact report
EMS	emergency medical services
EMT	emergency medical technician
EO	California Executive Order
EO	Executive Order
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
ESA	federal Endangered Species Act
ESFs	Emergency Support Functions
ESFs	Federal Emergency Support Function Annexes
ESPs	energy service providers
F	Fahrenheit
FAA	Federal Aviation Administration
FAST Act	Fixing America’s Surface Transportation Act of 2015
FAST	Fixing America’s Surface Transportation
FEMA	Federal Emergency Management Agency
FEMA	The Federal Emergency Management Agency
FHWG	Fisheries Hydroacoustic Working Group
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FIP	freight investment plan
FIRM	Flood Insurance Rate Maps
Fish & G Code	California Fish and Game Code

FMMP	Farmland Mapping and Monitoring Program
FR	Federal Register
FRA	Federal Railroad Administration
FSZ	Farmland Security Zone
FTA	Federal Transit Administration
FUDS	formerly used defense sites
g/m ³	micrograms per cubic meter
GAMAQI	Guide for Assessing and Mitigating Air Quality Impacts
GHG	greenhouse gas
GIS	geographic information system
GO	General Order
GPS	global positioning system
GSA	Groundwater Sustainability Agencies
GSPs	groundwater sustainability plans
GWh	gigawatt hours
GWP	global warming potential
HARP 2	Hotspots Analysis and Reporting Program Version 2
HCP	habitat conservation plan
Health & Saf. Code	California Health and Safety Code
HHFT	High-Hazard Flammable Trains
HI	hazard index
HRA	health risk assessment
HWP	hazardous waste property
I-	Interstate
ICCTA	Interstate Commerce Commission Termination Act
ICS	Incident Command System
IOUs	investor-owned utilities
IpaC	Information for Planning and Conservation
IPCC	Intergovernmental Panel on Climate Change
ITP	incidental take permit
KVP	key viewpoints
KWh	kilowatt hours
LAVTA	Livermore-Amador Valley Transportation Authority
LBP	lead-based paint
LBP	lead-based paint
Lbs	pounds
L _{dn}	the day-night sound level
LDT	light-duty truck
Leq	equivalent sound level
LID	low-impact development
Lmax	maximum A-weighted sound pressure levels
LOS	level of service
LRFD	Load and Resistance Factor Design
LRT	light rail transit

Lv, in VdB	vibration velocity level
MAA	Management Agency Agreement
Magnuson-Stevens Act	Magnuson-Stevens Fishery Conservation and Management Act
MBTA	Migratory Bird Treaty Act
MCAG	Merced County Association of Governments
MCE	Merced Regional Airport
MEI	maximum exposed individual
MID	Modesto Irrigation District
MOU	memorandum of understanding
MOW	Maintenance of way
Mph	miles per hour
MPO	metropolitan planning organizations
MRZ	mineral resource zone
MS4 Permit	NPDES General Permit for Municipal Separate Storm Sewer Systems
MS4	Municipal Separate Storm Sewer Systems
MTC	Metropolitan Transportation Commission
MTUCD	Manual on Uniform Traffic Control Devices
MW	megawatts
MWELo	model water efficient landscape ordinance
N/A	not applicable
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NAH	Native American Heritage Commission
NCCP	natural community conservation plan
NCED	National Conservation Easement Database
NEPA	National Environmental Policy Act
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NFCS	Natural Resources Conservation Service
NFHL	National Flood Hazard Layer
NFIP	The National Flood Insurance Program
NGOs	nongovernmental organizations
NHD	National Hydrography Dataset
NHFP	National Highway Freight Program
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NMFS	National Marine Fisheries Service
NO	nitric oxide
NO ₂	nitrogen dioxide
NO ₂	nitrogen dioxide
NOA	naturally occurring asbestos
NOA	Notice of Availability
NOP	Notice of Preparation

NO _x	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NSR	New Source Review
NSWD	non-stormwater discharge
OCP	organochlorine pesticides
OEHHA	Office of Environmental Health Hazard Assessment
OHP	Office of Historic Preservation
OHWM	ordinary high water mark
OSHA	Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbons
PB	lead
PCB	polychlorinated biphenyl
PCB	polychlorinated biphenyls
PCJPB	Peninsula Corridor Joint Powers Board
PG&E	Pacific Gas and Electric Company
PGA	peak ground acceleration
PHMSA	Pipeline and Hazardous Materials Safety Administration
PI	Plasticity Index
Plan	State Energy Plan
PM	particulate matter
PM ₁₀	particulate matter smaller than 10 microns in diameter
PM _{2.5}	particulate matter smaller than 2.5 microns in diameter
Porter-Cologne Act	Porter-Cologne Water Quality Control Act of 1969
Ppb	parts per billion
Ppb	parts per billion
Ppm	parts per million
PPV	peak particle velocity
Prior EIR	ACE Extension Lathrop to Ceres/Merced EIR
PTC	Positive Train Control
Public Res. Code	California Public Resources Code
RC	reinforced concrete
RCRA	Resources Conservation Recovery Act
Regional Water Boards	Regional Water Quality Control Boards
Richmond Railyard Study	Air Dispersion Modeling Assessment of Air Toxic Emissions from the BNSF Richmond Railyard
RMP	risk management plan
RMS	root-mean-square
ROG	reactive organic gases
ROW	right-of-way
RPS	Renewables Portfolio Standard
RTA	Rail Transit Agency
RTP	Regional Transportation Plan

RWD	Report of Waste Discharge
RWQCBs	Regional Water Quality Control Boards
S	soil
SAFE	USEPA Safer Affordable Fuel-Efficient
Santa Clara VTA	Santa Clara Valley Transportation Authority
SB	Senate Bill
SCS	Sustainable Communities Strategy
SED	Safety and Enforcement Division
SEL	sound exposure level
SEMS	California Standardized Emergency Management System
SERT	Special Emergency Response Team
SFBAAB	San Francisco Bay Area Air Basin
SFHA	special flood hazard areas
SGMA	California Department of Water Resources Sustainable Groundwater Management Act of 2014
SHPO	State Historic Preservation Office
SIP	State Implementation Plan
SJIPA	San Joaquin Joint Powers Authority
SJRRC	San Joaquin Regional Rail Commission
SJVAB	San Joaquin Valley Air Basin
SJVAPCD	San Joaquin Valley Air Pollution Control District
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLC	California State Lands Commission
SLIC	Spills, Leaks, Investigation, and Cleanup
SLR	sea level rise
SMARA	State Surface Mining and Reclamation Act
SO ₂	sulfur dioxide
SO ₂	sulfur dioxide
SOI	sphere of influence
SO _x	sulfur oxide
SPRR	Southern Pacific Railroad
SR	State Route
SR	State Route
SRA	shaded riverine aquatic cover
SSPP	System Safety Program Plan
StanCOG	Stanislaus County Council of Governments
State Water Board	State Water Resources Control Board
STB	Surface Transportation Board
SUDP	Specific Urban Development Plan
SVP	Society of Vertebrate Paleontology
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminants
Tanner Act	Toxic Air Contaminant Identification and Control Act

TCE	temporary construction easement
TDS	total dissolved solids
TID	Turlock Irrigation District
TMDL	total maximum daily load
TOD	transit-oriented development
TPZs	timberland production zones
TSA	Transportation Security Administration
TSCA	Toxic Substances Control Act
U.S.C.	United States Code
UPRR	Union Pacific Railroad
USA North	Underground Service Alert North
USACE	U.S. Army Corps of Engineers
USAR	urban search and rescue
USDA NRSC	U.S. Department of Agriculture Natural Resource Conservation Service
USDOT	U.S. Department of Transportation
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UST	underground storage tank
VdB	vibration velocity
VegCAMP	Vegetation Classification and Mapping Program
VMT	vehicle miles traveled
Wat. Code	California Water Code
WDR	waste discharge requirement