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## LIST OF ABBREVIATIONS AND ACRONYMS

The following table contains the abbreviations and acronyms used in the text.

### UNITS OF MEASUREMENT

°C	degrees Celsius	m <sup>2</sup>	square meter(s)
°F	degrees Fahrenheit	m <sup>3</sup>	cubic meter(s)
bbl	barrel (1 bbl = 42 gallons)	mg/kg	milligrams per kilogram
BTU	British thermal unit	mg/L	milligrams per liter
cfs	cubic feet per second	mgd	million gallons per day
cy/yr	cubic yards per year	mm	millimeter
dB	decibel	MT	metric tons
dBA	decibels on the A-weighted scale	MMT	million metric tons
fps	feet per second	mph	miles per hour
gpm	gallons per minute	MW	megawatt
GWh	Gigawatt-hour	ng/L	nanograms per liter
hp	horsepower	pg/L	picograms per liter
Hz	hertz	ppb	parts per billion
L/kg-day	liters per kilogram body weight per day	ppm	parts per million
lb	pound	ppt	parts per thousand
L <sub>dn</sub>	day-night sound level	psi	pounds per square inch
L <sub>eq</sub>	equivalent steady sound level that provides an equal amount of acoustical energy as the time-varying sound	scf	standard cubic foot
L <sub>eq(24)</sub>	24-hour equivalent sound level	µg/kg	micrograms per kilogram
m	meter	µg/L	micrograms per liter
m/s	meters per second	µg/m <sup>3</sup>	micrograms per cubic meter
		µm	micrometer (or micron)

### OTHER ABBREVIATIONS & ACRONYMS

2-D	Two-Dimensional
3-D	Three-Dimensional
<b>A</b> AAQS	Ambient Air Quality Standards
AB	Assembly Bill
ABAG	Association of Bay Area Governments
ACHP	Advisory Council on Historic Preservation
ACOE	U.S. Army Corps of Engineers
AFS	American Fisheries Society
ALC station	USGS Alcatraz station
AMS	Applied Marine Sciences, Inc.
APE	Area of Potential Effect (National Historic Preservation Act)
ASCE	American Society of Civil Engineers
<b>B</b> BAAQMD	Bay Area Air Quality Management District
Basin	San Francisco Bay Area Air Basin
Bay Plan	San Francisco Bay Plan

BCDC	San Francisco Bay Conservation and Development Commission	
BIA	Bureau of Indian Affairs	
BLM	Bureau of Land Management	
BMPs	Best Management Practices	
BO	Biological and Conference Opinion	
BP	Before Present	
C	CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards	
CalEPA	California Environmental Protection Agency	
CALFED	California Bay-Delta Authority	
California Register	California Register of Historic Resources	
Cal/OSHA	California Division of Occupational Safety and Health	
Caltrans	California Department of Transportation	
CANTVCP	California Nontank Vessel Contingency Plan	
CAP	Clean Air Plan	
CAPCOA	California Air Pollution Control Officers Association	
CARB	California Air Resources Board	
CARE	Community Air Risk Evaluation	
CAT	Climate Action Team	
CBDA	California Bay-Delta Authority	
CCAR	California Climate Action Registry	
CCR	California Code of Regulations	
CCTS	Central California Taxonomic System	
CDFG	California Department of Fish and Game	
CDMG	California Division of Mines and Geology	
Central Bay	Central San Francisco Bay	
CEQA	California Environmental Quality Act	
CFR	Code of Federal Regulations	
CGS	California Geological Survey	
CH <sub>4</sub>	Methane	
CHE	Coast and Harbor Engineering	
CHP	California Highway Patrol	
CNDDDB	California Natural Diversity Database	
CO	Carbon Monoxide	
CO <sub>2</sub>	Carbon Dioxide	
CO <sub>2</sub> e	Carbon Dioxide Equivalent	
CRHR	California Register of Historic Resources	
CSCC	California State Coastal Conservancy	
CSLC	California State Lands Commission	
CTR	California Toxics Rule	
CWA	Clean Water Act	
CZM	Coastal Zone Management	
CZMA	Coastal Zone Management Act	

<b>D</b>	Delta	Sacramento-San Joaquin Delta
	DO	Dissolved Oxygen
	DOT	U.S. Department of Transportation
	DPM	Diesel Particulate Matter
	DPR	Department of Parks and Recreation
	DPS	Distinct Population Segments
	DTSC	Department of Toxic Substances Control
	DWR	California Department of Water Resources
<b>E</b>	EA	Environmental Assessment
	EFH	Essential Fish Habitat
	EIR	Environmental Impact Report
	EIS	Environmental Impact Statement
	ESA	Endangered Species Act
	ESA	Environmental Science Associates
	ESRI	Environmental Systems Research Institute
	ESU	Evolutionarily Significant Unit
	ETM	Estuarine Turbidity Maximum
	EWTSMMP	Emergency Water Transportation System Management Plan
<b>F</b>	FAA	Federal Aviation Administration
	FERC	Federal Energy Regulatory Commission
	FMP	Fisheries Management Plan
	FTE	Full-Time Equivalent
<b>G</b>	GGNRA	Golden Gate National Recreation Area
	GHG	Greenhouse gases
	GPS	Global Positioning System
	GWP	Global Warming Potential
<b>H</b>	HAPs	Hazardous Air Pollutants
	HE	Hanson Environmental, Inc.
	HFCs	Hydrofluorocarbons
	HH	Household
	HMMP	Hazardous Materials Management Plan
	HVDC	High Voltage Direct Current
<b>I</b>	IEP	Interagency Ecological Program
	IMO	International Maritime Organization
	IPCC	Intergovernmental Panel on Climate Control
	ISO	Independent System Operator
	ITP	Incidental Take Permit
<b>L</b>	LOS	Level of Service
	LPP(s)	Local Protection Program(s) (county)
	LTMS	Long-Term Management Strategy
<b>M</b>	MAL station	USGS Mallard Island station
	MEC	MEC Analytical Systems, Inc.
	MLD	Most Likely Descendant

MLLW	Mean Lower Low Water
MM	Mitigation Measure
MMP	Mitigation Monitoring Program
MMTCO <sub>2e</sub>	Million metric tons of carbon dioxide equivalent
MMWD	Marin Municipal Water District
MP	Milepost
MRZs	Mineral Resource Zones
MTC	Metropolitan Transportation Commission
<b>N</b> NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
National Register	National Register of Historic Places
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFPA	National Fire Protection Association
NGA	Natural Gas Act
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NO <sub>2</sub>	Nitrogen Dioxide
NOAA	National Oceanic and Atmospheric Administration
NOD	Notice of Determination
NOI	Notice of Intent
NOP	Notice of Preparation
NO <sub>x</sub>	Nitrogen Oxides
NPDES	National Pollutant Discharge Elimination System
NPPA	Native Plant Protection Act
NRC	National Response Center
NRCS	Natural Resource Conservation Service
NRHP	National Register of Historic Places
NSA	Noise Sensitive Area
NTR	National Toxics Rule
NTVRP	Non-Tank Vessel Response Plan
NWI	National Wetlands Inventory
NWIC	Northwest Information Center
NWR	National Wildlife Refuge
<b>O</b> O&M	Operation and Maintenance
O <sub>3</sub>	Ozone
Oakland Harbor	Oakland Harbor Navigation Improvement
OBS	Optical Backscatter
OEHHA	California Office of Environmental Health Hazard Assessment
OES	Office of Emergency Services
OHP	California Office of Historic Preservation
OPA 90	Federal Oil Pollution Act of 1990
OPR	Governor's Office of Planning and Research

OSPR	Office of Oil Spill Prevention and Response
OSC	On-scene Coordinator
OSHA	Occupational Safety and Health Administration
<b>P</b> PAHs	Polycyclic Aromatic Hydrocarbons
Pb	Lead
P-C	Production-Consumption
PCBs	poly-chlorinated biphenyls
PFCs	perfluorocarbons
PG&E	Pacific Gas and Electric
PLS	Partial Least-Square
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter less than 10 Microns
PM <sub>2.5</sub>	Particulate Matter less than 2.5 Microns
PMFC	Pacific Marine Fisheries Council
PRPA	Federal Paleontological Resources Preservation Act
PSD	Prevention of Significant Deterioration
<b>R</b> RCRA	Federal Resource Conservation and Recovery Act of 1978
RDEIR	Revised Draft Environmental Impact Report
RMP	Regional Monitoring Program
RNA	Regulated Navigation Area
ROD	Record of Decision
ROG	Reactive Organic Gases
ROW	Right-of-Way
RWQCB	Regional Water Quality Control Board
<b>S</b> SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill
SCC	Subsurface Countercurrents
SF <sub>6</sub>	Sulphur Hexafluoride
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
SFEI	San Francisco Estuary Institute
SHPO	State Historic Preservation Officer
SIP	State Implementation Policy (regarding water quality)
SIPs	State Implementation Plans (regarding air quality)
SMARA	Surface Mining and Reclamation Act of 1975
SMGB	State Mining and Geology Board
SMPP	Suisun Marsh Protection Plan
SO <sub>2</sub>	Sulfur Dioxide
SOC	Statement of Overriding Considerations
SOLAS	International Convention for Safety of Life at Sea
SO <sub>x</sub>	Sulfur Oxides
SPCC	Spill Prevention, Control, and Countermeasures Plan
SSA	Special Services Area
SSC	Suspended Sediment Concentration

SVP	Society of Vertebrate Paleontology
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
<b>T</b> TACs	Toxic Air Contaminants
TDS	Total Dissolved Solids
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
<b>U</b> U.S.C.	U.S. Code
USCG	U.S. Coast Guard
USDA	U.S. Department of Agriculture
U.S. EPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
<b>V</b> VGP	Vessel General Permit
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound
VTC	Vessel Traffic Center
VTSS	Vessel Traffic Safety System
<b>W</b> WDRs	Waste Discharge Requirements
WETA	San Francisco Water Emergency Transit Authority
WRCC	Western Regional Climate Center
WTA	San Francisco Bay Area Water Transit Authority
<b>X</b> X2	Location of 2 parts per thousand salinity in the interface of saltwater and freshwater in the Sacramento-San Joaquin Delta