

CHAPTER 7

Abbreviations/Acronyms and Glossary

7.1 Abbreviations/Acronyms

Abbreviation/Acronym	Definition
AB	Assembly Bill
ABAG	Association of Bay Area Governments
ACM	asbestos-containing materials
ACTM	Airborne Toxic Control Measure
ADA	Americans with Disabilities Act
AdH	adaptive hydraulics
ADT	average daily traffic
AEC	Advanced Environmental Concepts
AECOM	Architecture, Engineering, Consulting, Operations, and Maintenance
AERMAP	AERMOD terrain preprocessor program
AERMOD	atmospheric dispersion modeling system
AFY	acre-feet per year
amsl	above mean sea level
ANSI	American National Standards Institute
APE	area of potential effects
API	American Petroleum Institute
APN	assessor parcel number
AQMP	air quality management plan
AR4	IPCC Fourth Assessment Report
ASCE	American Society of Civil Engineers
ASF	age sensitivity factors
AST	aboveground storage tanks
ASTM	American Society for Testing and Materials
ATCM	airborne toxic control measure
B.P.	before present
BACT	best available control technology
bgs	below ground surface
BMP	best management practices
BOMP	Beach Oil Mineral Partners
BOPE	blowout prevention equipment
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CAL FIRE	California Department of Forestry and Fire Protection
CAL OSHA	California Occupational Safety and Health Administration

Abbreviation/Acronym	Definition
Cal/EPA	California Environmental Protection Agency
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards
California Register	California Register of Historical Resources
CalRecycle	California Department of Resources, Recycling, and Recovery
Caltech	California Institute of Technology
Caltrans	California Department of Transportation
CAP	congested area plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CATs	Climate Action Team
CBC	California Building Code
CBSC	California Building Standards Commission
CCA	California Coastal Act
CCC	California Coastal Commission
CCC	California Coastal Conservancy
CCR	California Code of Regulations
CDFG	California Department of Fish and Game (now CDFW)
CDFW	California Department of Fish and Wildlife (formerly CDFG)
CDMG	California Division of Mines and Geology
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CFC	California Fire Code
CFR	Code of Federal Regulations
CGS	California Geological Survey
CH ₄	methane
CHHSL	California Human Health Screening Levels
CHP	combined heat and power
CHRIS	California Historical Resources Information System
CHWR	coastal habitat, wetlands, and recreation
CI	compression ignition
City	City of Long Beach
CIWMB	California Integrated Waste Management Board
CMP	congestion management program
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNPS	California Native Plant Society
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalents
COMM	commercial and sport fishing
CPUC	California Public Utilities Commission
CRPR	California Rare Plant Rank

Abbreviation/Acronym	Definition
CSULB	California State University Long Beach
CTMP	Construction Traffic Management Plan
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
CZMA	Coastal Zone Management Act of 1972
dB	decibels
dBA	A-weighted decibels
DEM	digital elevation model
DigAlert	Underground Services Alert of Southern California
DOF	[California] Department of Finance
DOGGR	Division of Oil, Gas, and Geothermal Resources
DPF	diesel particulate filters
DPM	diesel particulate matter
DPR	[California] Department of Parks and Recreation
DRS	Disposal Reporting System
DTSC	[California] Department of Toxic Substances Control
DWR	[California] Department of Water Resources
EDD	Employment Development Department
EFH	essential fish habitat
EIR	environmental impact report
EMFAC	CARB on-road vehicle emissions factor model
ESA	Environmental Science Associates
ESA	environmental site assessment
ESHA	environmentally sensitive habitat area
ESL	environmental screening level
EST	estuarine habitat
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FESA	federal Endangered Species Act
FHWA	Federal Highway Administration
FRAP	Fire and Resource Protection Program
FTA	Federal Transit Administration
FWCA	Fish and Wildlife Coordination Act
g	gravity
GHG	greenhouse gas
GIS	geographic information systems
GLA	Glenn Lukos Associates
GVWR	gross vehicle weight rating
GWP	global warming potential
HABS	Historic American Buildings Survey
HALS	Historic American Landscape Survey
HAP	hazardous air pollutant
HAPC	habitats of particular concern
HARP	Hotspots Analysis and Reporting Program
HCC	Haynes Cooling Channel
HCP	habitat conservation plan

Abbreviation/Acronym	Definition
HFC	hydrofluorocarbon
HI	Hazard Index
HMBP	hazardous materials business plan
hp	horsepower
HRA	health risk assessment
HSC	[California] Health and Safety Code
HSWA	Hazardous and Solid Waste Amendment
Hz	hertz
I-#	Interstate #
IBC	International Building Code
IFC	International Fire Code
in/sec	inches per second
IPCC	Intergovernmental Panel on Climate Change
IRT	interagency review team
IS	initial study
IUCN	International Union for the Conservation of Nature
JFTB	Joint Forces Training Base
JWPCP	Joint Water Pollution Control Plant
kBtu	kilo British thermal unit
KCG	Kling Consulting Group
KNXX	Miramar Marine Corps Air Station
KOP	key observation points
KSLI	Los Alamitos Army Airfield
kW	kilowatts
kWh	kilowatt-hours
LACM	Natural History Museum of Los Angeles County
LACSD	Los Angeles County Sanitation District
LADPW	Los Angeles Department of Public Works
LAPL	Los Angeles Public Library
LARWQCB	Los Angeles Regional Water Quality Control Board
LBCA	Long Beach City Auditor
LBFD	Long Beach Fire Department
LBGO	Long Beach Gas and Oil Department
LBMC	Long Beach Municipal Code
LBP	lead-based paint
LBPRM	Long Beach Parks, Recreation, and Marine Department
LBWRP	Long Beach Water Reclamation Plant
LCFS	low-carbon fuel standard
LCP	local coastal program
LCW	Los Cerritos Wetlands
LCWA	Los Cerritos Wetlands Authority
LCWS	Los Cerritos Wetlands Stewards
L _{dn}	day-night average noise level
LEL	lower explosive limit
L _{eq}	equivalent sound level
LID	low-impact development

Abbreviation/Acronym	Definition
L _{max}	maximum, instantaneous noise level
L _{min}	minimum, instantaneous noise level
LOS	level of service
LP	low pressure
LST	localized significance thresholds
LUD	land use district
LUST	leaking underground storage tank
L _x	noise level exceeded a percentage of a specified time period
Ma	million years ago
Magnuson-Stevens Act	Magnuson-Stevens Fishery Conservation and Management Act
MATES	Multiple Air Toxics Exposure Study
MBTA	Migratory Bird Treaty Act
MCF	Mitsubishi Caterpillar Forklift
MCL	maximum contaminant levels
MCV II	Manual of California Vegetation, Second Edition
Metro	Los Angeles County Metropolitan Transportation Authority
mg/L	milligrams per liter
mgd	million gallons per day
MHHW	mean higher high water
MHW	mean high water
MICR	maximum individual cancer risk
MIGR	migration of aquatic organisms
ML	Richter magnitude
MLD	most likely descendant
MLLW	mean lower low water
MMI	Modified Mercalli Intensity Scale
MMRP	mitigation monitoring and reporting plan
MMT	million metric tons
MND	mitigated negative declaration
mph	miles per hour
MPO	metropolitan planning organization
MPPA	Marine Mammal Protection Act
MPWSP	Monterey Peninsula Water Supply Project
MRR	Mandatory Reporting Rule
MRZ	mineral resource zone
MSCFD	thousand standard cubic feet per day
MT	metric ton
MUTCD	[California] Manual of Uniform Traffic Control Devices
M _w	moment magnitude
MW	megawatt
MWD	Metropolitan Water District of Southern California
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NALMA	North American Land Mammal Age
National Register	National Register of Historic Places

Abbreviation/Acronym	Definition
NAV	navigation
NEHRP	National Earthquake Hazards Reduction Program
NGVD	National Geodetic Vertical Datum
NH ₃	ammonia
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NIST	National Institute of Standards and Technology
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NOI	notice of intent
NOP	notice of preparation
NORM	naturally occurring radioactive material
NOV	notice of violation
NO _x	nitrogen oxides
NPDES	National Pollutant and Discharge Elimination System
NPS	National Park Service
NSF	National Science Foundation
NWI	National Wetland Inventory
NWS	National Weather Service
OCALUC	Orange County Airport Land Use Commission
OCFA	Orange County Fire Authority
OEHHA	Office of Environmental Health Hazard Assessment
OFFROAD	CARB off-road vehicle emissions factor model
OHP	[California] Office of Historic Preservation
OHW	ordinary high water
OPR	[California Governor's] Office of Planning and Research
OSHA	Occupational Safety and Health Administration
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyls
PCH	Pacific Coast Highway
PD-1	Planned Development District 1
PeMS	Caltrans Performance Measurement System
PERC	preservation, enhancement, restoration, or creation
PFC	perfluorocarbon
PGA	peak ground acceleration
Plan	Relocation and Rehabilitation Plan
PM ₁₀	respirable particulate matter with an aerodynamic diameter of 10 micrometers or less
PM _{2.5}	fine particulate matter with an aerodynamic diameter of 2.5 micrometers or less
PNA	polynuclear aromatic hydrocarbons
ppm	parts per million
PPV	peak particle velocity
PRC	[California] Public Resources Code
PRD	permit registration documents
PRG	preliminary remediation goal

Abbreviation/Acronym	Definition
proposed project	Los Cerritos Wetlands Habitat Oil Consolidation and Restoration Project
PSD	prevention of significant deterioration
PSHA	probabilistic seismic hazard assessment
PV	photovoltaic
RARE	Rare, Threatened, or Endangered Species
RCP&G	Regional Comprehensive Plan and Guide
RCRA	Resource Conservation and Recovery Act
REC-1	Water Contact Recreation
REC-2	Non-Contact Water Recreation
RMS	root mean square
ROG	reactive organic gases
RSL	regional screening levels
RTP	regional transportation plan
RWQCB	Regional Water Quality Control Board
SARA	Superfund Amendments Reauthorization Act
SB	Senate Bill
SCAB	South Coast Air Basin
SCADA	Supervisory Control and Data Acquisition
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SCIC	Southern California Indian Center
SCR	selective catalytic reduction
SCS	sustainable communities strategy
SDC	seismic design category
SEADIP	Southeast Area Development and Improvement Plan
SEASP	Southeast Area Specific Plan Update
SERRF	Southeast Resource Recovery Facility
sf	square feet
SF ₆	sulfur hexafluoride
SF _x	sulfur fluorides
SGMA	Sustainable Groundwater Management Act
SHELL	shellfish harvesting
SHPO	State Historic Preservation Officer
SIP	state implementation plan
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLF	Sacred Lands File
SMCL	secondary maximum contaminant level
SO ₂	sulfur dioxide
SO ₃	sulfur trioxide
SoCalGas	Southern California Gas Company
SO _x	sulfur oxides
SPCC	Spill Prevention, Control, and Countermeasure
SPEC	System Planning, Engineering, and Coordinating
SR	State Route

Abbreviation/Acronym	Definition
SRA	source receptor area
SURGE	Surface Use Release Agreement and Grant of Easement
SVOC	semivolatile organic compound
SVP	Society of Vertebrate Paleontology
SWAPE	Soil/Water/Air Protection Enterprise
SWPPP	stormwater pollution prevention plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TBA	tertiary butyl alcohol
TDS	total dissolved solids
TMDL	total maximum daily load
TPH	total petroleum hydrocarbon
TSCA	Toxic Substances Control Act
TTLC	total threshold limit concentration
UBC	Uniform Building Code
UCERF	Uniform California Earthquake Rupture Forecast
UCLA	University of California, Los Angeles
UIC	Underground Injection Control
USACE	U.S. Army Corps of Engineers
USBR	U.S. Bureau of Reclamation
USC	U.S. Code
USC	University of Southern California
USDOT	U.S. Department of Transportation
USEIA	U.S. Energy Information Administration
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Services
USGS	U.S. Geological Survey
UST	underground storage tank
UWMP	urban water management plan
VCS	Vandermost Consulting Services, Inc.
VDECS	verified diesel emission control strategies
VMT	vehicle miles traveled
VOC	volatile organic compounds
VT	Virginia Polytechnic Institute and State University
WDR	waste discharge requirements
WET	wetland habitat
WGCEP	Working Group on California Earthquake Probabilities
WILD	wildlife habitat
WRD	water replenishment district
$\mu\text{g}/\text{cm}^3$	micrograms per cubic meter
μm	micron, one millionth of a meter
$\mu\text{R}/\text{hr}$	microrentgens per hour

7.2 Glossary

Alamitos Bay: Alamitos Bay is currently composed of the Marine Stadium, Long Beach Marina, and Alamitos Bay proper. A small bathing lagoon, Colorado Lagoon in Long Beach, has a tidal connection with Alamitos Bay and a small wildlife pond, Sims Pond, also has a tidal connection (RWQCB 2016).

Annuli: Rings; ring-like parts, bands, or spaces.

Auger: Drill used for boring holes

Blind flanges: Blind pipe flanges are used to seal the end of piping systems or pressure vessel openings. They are commonly used for testing the flow of gas or liquid through a pipe or vessel.

Blowout prevention equipment (BOPE): Valves and other equipment that are installed on top of the casing head before drilling. These valves are designed to withstand high pressure, and to shut off the well and prevent the escape of underground fluids in the event of a blowout.

Cased bored crossing: A pipeline, or group of pipelines, that are put into a casing that is then put under ground. Cased bored crossings are used to protect pipelines so they can be placed under streets or roads.

Casing shoe: A cylinder or ring of hard steel with a cutting edge attached to the bottom of a string of well casing.

Cement plugs: A plug of cement or similar material placed as a slurry (suspended liquids, or muds) in a specific location within the wellbore which has set to provide a means of pressure isolation or mechanical service. Cement plugs are used for a variety of applications including hydraulic isolation, provision of a secure platform, and in window-milling operations for sidetracking a new wellbore.

Channelization: Cutting or making channels.

Cold tapped: Cold tapping is a method of tapping into a live pipeline, tubing, or well casing without the need to do any welding or hot work

Critical service pipelines: A pipeline that deals with delivering oil, or high pressure gas or water.

Drilling muds: Also called drilling fluid, is a mixture of clays, chemicals, and water that are used to lubricate and cool the drilling bit. Drilling fluid also cleans and strengthens the sides of a well.

Earthen berm: Flat strip of land, raised bank, or terrace bordering a river or canal.

Environmentally preferred cogeneration system: A cogeneration system, or the simultaneous generation of electricity and useful heating and cooling from the combustion of a fuel or a solar heat collector, that is environmentally friendly or beneficial.

Gas flare system: A gas combustion device used in industrial plants, also known as flare stacks, primarily used for burning off flammable gas released by pressure relief valves during unplanned over-pressuring of plant equipment.

Gas-blanketing: Putting a gas into the empty space of the tank in order to protect the product in the container, reduce hazards, and give the tank a longer lifespan.

Ground flare: Utilized to flare high volumes of plant gases in the case of a plant de-pressurization or plant upset.

High marsh: A marsh located above the Mean High-water Mark (MHW), or the average of all the high tide water heights, but below the uplands.

Injection water tank: A tank that holds the water used for the water injection wells. The tank used on the LCWA site will hold 5,000 barrels.

Land conveyance: The general transfer of legal title of property from one entity to another.

Microgrid system: A small-scale power grid that can operate independently or in conjunction with the area's main grid.

Mitigation bank: According to the U.S. Environmental Protection Agency (USEPA), a mitigation bank is a wetland, stream or other aquatic resource area that has been restored, established, enhanced, (or in certain circumstances) preserved for the purpose of providing compensation from unavoidable impacts to aquatic resources permitted under Clean Water Act Section 404 or a similar state or local wetland regulation. The value of a bank is defined in "compensatory mitigation credits." A bank's instrument identifies the number of credits available for sale and requires the use of ecological assessment techniques to certify those credits provide the required ecological functions. Mitigation banks are a form of "third party" compensatory mitigation, in which the responsibility for compensatory mitigation implementation and success is assumed by a part other than the permittee. This transfer of liability has been a very attractive feature for Section 404 permit-holders, who would otherwise be responsible for the design, construction, monitoring, ecological success, and long-term protection of the site. USEPA, Mitigation Bank Factsheet, <http://www.epa.gov/cwa-404/mitigation-banking-factsheet>, accessed March 2, 2016.

Mud fluid: Is a mixture of clays, chemicals, and water used to stabilize and plug the wellbore. Mud fluid is mixed to maintain a chemical balance and prevents the escape of other fluids into, or out of the wellbore.

Naturally occurring radioactive material (NORM): NORM consists of materials, usually industrial wastes or by-products enriched with radioactive elements found in the environment.

New occupancy date: The date when the oil production facilities on the Pumpkin Patch and LCWA sites, including the office facility on the Pumpkin Patch site, will be completed and occupied.

Pigs: Devices that are inserted into and travel throughout the length of a pipeline driven by a product flow, to clean the pipeline.

Residual fluid: Water, or drilling fluids or muds that are left behind after drilling. Contractors would use spill prevention methods while isolating, cutting, and handling pipeline including the use of plastic sheeting, half barrels, and vacuum trucks.

Sales oil tank: Tank used to hold the crude oil that is taken from the well. The oil tank used on the LCWA site will hold 28,000 barrels.

Smart pigs: Pigs that can gather data and information from pipelines to be analyzed by the engineers.

Steamshovel Slough: One of the two functioning marshes in the Los Cerritos Wetlands.

Tank farm: Area of oil storage tanks.

Tidal exchange: The turnover of water in an estuary that brings new minerals and nutrients with the tide change.

Tidal marsh: A tidal marsh is a type of marsh that is found along coasts and estuaries of which the flooding characteristics are determined by the tidal movement of the adjacent estuary, sea or ocean.

Tidal water: Water that is displaced during the changing of tides

Tide gate: Opening where the tidal water flows through in either direction.

Transitional wetland: A wetland that is not wet all of the time, but will experience flooding.

Water injection wells: Water is injected into the oil field to increase pressure and stimulate production.

Well cellars: Surround drilling wells and allow for access to wellhead components for service and installation of wellhead equipment.

Wetlands mitigation bank: Mitigation banking is the preservation, enhancement, restoration, or creation (PERC) of a wetland, stream, or habitat conservation area which offsets, or compensates for, expected adverse impacts to similar nearby ecosystems. The establishment of a mitigation bank is not contemplated under this EIR, rather the restoration efforts of the Applicant are.

Workover rig: Rigs used after the completion of the well, in order to deepen, widen, plug, or pull and reset liners of the producing well. Workover rigs are portable and used when the production rate of a well starts to decline, or the well is in need of repair.

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