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Appendices

Appendix A – Project Design Information

Appendix B – Notice of Preparation and Comment Letters and Matrix

Appendix C – Air Quality and Greenhouse Gas Emissions Information

Appendix D – Biological Resources Information

Appendix E – Noise Impact Assessment

List of Abbreviations and Acronyms

Abbreviation	Definition
°C	degrees Celsius
°F	degrees Fahrenheit
AB	Assembly Bill
AFFF	aqueous film forming foams
AFY	acre-feet per year
APN	Assessor's Parcel Number
Applicant	Phillips 66 Company
ATCM	Air Toxics Control Measure
BACT	best available control technology
BMP	best management practice
BRAMMP	Biological Resources Adaptive Management and Monitoring Plan
CAAQS	California Ambient Air Quality Standards
CalARP	California Accidental Release Prevention
CalEPA	California Environmental Protection Agency
CAL FIRE	California Department of Forestry and Fire Protection
CalGEM	California Department of Conservation Geologic Energy Management Division
Cal-IPC	California Invasive Plant Council
Cal/OSHA	California Division of Occupational Safety and Health
CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Officers Association
CARB	California Air Resources Board
CBC	California Building Code
CCAA	California Clean Air Act
CCC	California Coastal Commission
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CDOC	California Department of Conservation
CDP	Coastal Development Permit
CDPR	California Department of Parks and Recreation
CEC	California Energy Commission
CESA	California Endangered Species Act
CEQA	California Environmental Quality Act
CFC	California Fire Code
CFR	Code of Federal Regulations
CGP	Construction General Permit
CGS	California Geological Survey
CH ₄	methane
CNEL	Community Noise Equivalent Level
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
COD	chemical oxygen demand
COSE	County General Plan Conservation and Open Space Element
County	County of San Luis Obispo
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources

List of Abbreviations and Acronyms

Abbreviation	Definition
CRMDP	Cultural Resources Monitoring and Discovery Plan
CSLC	California State Lands Commission
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
CZLUO	Coastal Zone Land Use Ordinance
dB	decibel
dBA	A-weighted decibel
Decommissioning	Facility shut-down activities. During facility shut-down, the Refinery will cease operations, isolate process-related equipment and piping, remove bulk materials, and decontaminate process equipment and piping. Refinery shut-down and decommissioning are permitted activities under existing permits and are not a part of this CDP application.
Decontamination	Facility shut-down activities that entail clearing and cleaning of process equipment and piping. Decontamination is a permitted activity under existing permits and is not a part of this CDP application.
Demolition	Physical removal of aboveground and belowground Refinery facilities. Demolition occurs after decommissioning.
DP	Development Plan
DPM	diesel particulate matter
DRAMP	Demolition & Remediation Activity Management Plan
DTSC	Department of Toxic Substances Control
EIR	Environmental Impact Report
ESHA	Environmentally Sensitive Habitat Areas
ESL	environmental screening levels
FHWA	Federal Highway Administration
FMMP	Farmland Mapping and Monitoring Program
FTA	Federal Transportation Administration
GHG	greenhouse gas
GWP	global warming potential
GWRP	Groundwater Remediation Project
HMBP	hazardous materials business plan
HRA	health risk assessment
HRRP	Habitat Restoration and Revegetation Plan
HSC	Health and Safety Code
Hz	hertz
IGP	Industrial General Permit
IPCC	United Nations Intergovernmental Panel on Climate Change
LCP	Local Coastal Program
Ldn	Day-Night Average Level
Leq	Equivalent Continuous Sound Level
Lmax	maximum instantaneous noise level
Lmin	minimum instantaneous noise level
LMUSD	Lucia Mar Unified School District
LNAPL	light non-aqueous phase liquid
LOS	level of service
LUE	County General Plan Land Use Element
MLD	Most Likely Descendant
MM	mitigation measure
MMRP	Mitigation Monitoring and Reporting Program
MMTCO ₂ e	million metric tons carbon dioxide equivalent

List of Abbreviations and Acronyms

Abbreviation	Definition
MT/yr	metric tons per year
MWh	megawatt-hour
NA	not applicable
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NIWS	Northern Inactive Waste Site
NFPA	National Fire Protection Association
NMMA	Nipomo Mesa Management Area
NOAA	National Oceanic and Atmospheric Administration
NOP	Notice of Preparation
NO _x	nitric oxides
NPDES	National Pollutant Discharge Elimination System
NRCS	National Resources Conservation Service
NRHP	National Register of Historic Places
ODSVRA	Oceano Dunes State Vehicular Recreation Area
OEC	On-site Environmental Coordinator
OEHHA	Office of Environmental Health Hazard Assessment
OHV	Off-highway vehicle
OM&M Plan	Operation, Monitoring, and Maintenance Plan
OPR	California Office of Planning and Research
OSFM	California Office of the State Fire Marshal
OSHA	Occupational Safety and Health Administration
OWTS	onsite wastewater treatment systems
PFAS	per-and polyfluoralkyl substances
PG&E	Pacific Gas and Electric Company
PHMSA	Pipeline and Hazardous Materials Safety Administration
PM	particulate matter
ppm	parts per million
PPV	peak particle velocity
PRC	Public Resources Code
Project	Phillips 66 Santa Maria Refinery Demolition and Remediation Project
PTC	Permit to Construct
PTO	Permit to Operate
QSP	Qualified Storm Water Practitioner
RCNM	Roadway Construction Noise Model
Refinery	Santa Maria Refinery
Remediation	Site characterization and removal and disposal of hydrocarbon-impacted soil or other contaminated materials.
Restoration	Restoration of impacted land with a combination of short-term and long-term revegetation, erosion and sediment control measures, and dust control measures. Restoration will occur directly after remediation.
RMP	Risk Management Program
ROG	reactive organic gases
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SLOCAPCD	San Luis Obispo County Air Pollution Control District
SLOCOG	San Luis Obispo Council of Governments
SLR	sea level rise

Table of Contents

List of Abbreviations and Acronyms

Abbreviation	Definition
SMGB	Santa Maria Groundwater Basin
SMR	Santa Maria Refinery
SoCalGas	Southern California Gas Company
SO _x	sulfur oxides
SPCC	Spill Prevention, Control and Countermeasure
SR	State Route
SRA	State Responsibility Area
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	Toxic Air Contaminants
TDS	total dissolved solids
TMDL	total maximum daily load
UPRR	Union Pacific Railroad
USDA	United States Department of Agriculture
U.S. DOT	United States Department of Transportation
U.S. EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
USFWS	United States Fish and Wildlife Service
VMT	vehicle miles traveled
WEAP	Worker Environmental Awareness Program
WET	water effluent treatment
WMP	Weed Management Plan
WWTF	wastewater treatment facility
µg/m ³	microgram per cubic meter