

J. Report Preparation

J.1 EIR Preparers

A consultant team of 34 key technical and administrative personnel headed by Aspen Environmental Group prepared this document under the direction of the CPUC. Table J-1 below presents the preparers and technical reviewers of this document and their qualifications.

Table J-1. EIR Preparers and Technical Reviewers

Agency / Firm	Personnel by Name and Title	Education	Years Exp.	Issue Area
Lead Agency				
California Public Utilities Commission	Andrew Barnsdale, Project Manager	Master of Public Administration (MPA)	18	CPUC Project Manager
	Pam Nataloni, Attorney	J.D.	15	CPUC CEQA Legal Support
Project Management and Document Production				
Aspen Environmental Group	Hamid Rastegar, Principal	D.Env., Environmental Science & Engineering M.S., Environmental Science and Engineering B.S., Civil Engineering	24	Principal-in-Charge
	Jon Davidson, Vice President, Agoura Hills Operations	Master of Urban and Regional Planning B.A., Urban Planning	21	EIR Project Manager, Alternatives, Project Description, Technical Review
	Susan Lee, Vice President, San Francisco Operations	M.S., Applied Earth Science B.A., Geology	19	Client Liaison, Quality Assurance
	Tom Murphy, Vice President, Sacramento Operations	M.S., Applied Earth Science B.A., Geography	12	Technical Review
	Brewster Birdsall, Senior Associate, Engineer/Physical Scientist	M.S., Civil Engineering B.S., Mechanical Engineering	8	Air Quality, Noise and Vibration, Technical Review
	Michelle Mattson, Associate, Wetland Ecologist/Watershed and Restoration Planning	B.S., Ecology, Behavior & Evolution	9	Biological Resources
	Lisa Blewitt, Associate Engineer/Physical Scientist	B.S., Chemical Engineering	9	Alternatives, Project Description
	Hedy Born, Environmental Scientist	M.S., Earth Systems B.S., Earth Systems	4	Project Support with Alternatives, Scoping Report, Project Description
	Craig Hattori, CAD Manager	B.A., Philosophy	12	Graphics, GIS
	Jacob Hawkins, Environmental Planner	Master of Environmental Studies and Management B.S., Biology	4	Public Services and Utilities, Socioeconomics
Phil Lowe, PE, Senior Associate, Earth Scientist	M.S., Watershed Management, B.S., Wildlife Management	24	Hydrology	

SONGS Steam Generator Replacement Project
J. REPORT PREPARATION

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Agency / Firm	Personnel by Name and Title	Education	Years Exp.	Issue Area
Aspen Environmental Group (cont.)	Kathleen Robertson, Environmental Planner	M.P.A., Earth Systems Science, Policy and Management, B.U.E.P., Urban and Environmental Planning	3	Land Use and Recreation, Project Support
	Kati Simpson, Cartography and Graphics Coordinator	B.A., Geography	19	Graphics, GIS
	Mark Tangard, Administrative Manager	B.A., Geography	30	Document Production, Website
	Negar Vahidi, Senior Associate, Social Scientist	Master of Public Administration B.A., Political Science	12	Land Use and Recreation, Socioeconomics, Public Services and Utilities
	Tatiana Inouye, Environmental Planner	Master of Environmental Studies and Management B.S., Biology	4	Land Use and Recreation, Project Support, Public Involvement
	Mel Willis, Senior Associate	Ph.D., Environmental Science and Management Master of Environmental Science and Management Master of City and Regional Planning B.A., Zoology and Geography	30	Editorial and Technical Review
Cassidy, Shimko & Dawson	Anna Shimko, Principal	J.D., B.A. Urban Studies	19	CEQA Legal Support
Geotechnical Consultants	Aurie Patterson, Registered Geologist	B.A., Geology	16	Geology, Soils and Paleontology
	James E. Thurber, Chief Geologist	M.S., Geology	19	Geology, Soils and Paleontology
Katz and Associates	Karen Linehan, Director	B.A., Anthropology	12	Public Involvement
Marine Research Specialists	Steven Radis, Principal	M.A., Climatology B.A., Climatology	20	System and Transportation Safety
	John Pierson, Principal	B.A., Mathematics	22	System and Transportation Safety
	Douglas Coats, Principal	Ph.D., Oceanography M.S., Oceanography B.S., Physics	20	Marine Biology
	Uliana Micovic, Staff Engineer	M.S., Chemical Engineering B.S., Chemical Engineering	11	Traffic and Circulation
Pacific Group Electric Power	James Schoonmaker, Senior Power Engineer	M.B.A., Finance B.S., Engineering	42	Plant Engineering and Safety
	Richard Bannister, Consultant	M.S., Nuclear Engineering B.S., U.S. Naval Academy	44	Plant Engineering and Safety
Sullivan Consulting Group	Michael Foster, Principal, Hydrogeologist	Ph.D., Hydrogeology M.S., Geohydrology B.S., Engineering Geology and Geotechnics	19	Hazardous Materials
	Joseph Fucella, Senior Technical Manager	Ph.D., Environmental Science, B.S., Geology	21	Hazardous Materials

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Agency / Firm	Personnel by Name and Title	Education	Years Exp.	Issue Area
William Kanemoto & Associates	William Kanemoto, Principal	M.A., Landscape Architecture B.A., Liberal Studies	20	Visual Resources
William Self Associates	James Allan, Principal	Ph.D., Anthropology M.A., Anthropology M.A., Maritime History and Underwater Archaeology B.S., Business Administration	15	Cultural Resources
	Alan Estes, Senior Technical Manager	Ph.D., Near East Studies	15	Cultural Resources

J.2 EIR Information Contacts

Table J-2 lists the people who were contacted and consulted during the preparation of this document and the EIR section(s) in which the provided information was used.

Table J-2. EIR Information Contacts

Agency/Organization	Name and Title	EIR Section(s) Containing Provided Information
California Department of Conservation, Division of Land Resource Protection	Patrick Hennessy, Research Analyst 2 (GIS)	Land Use, Recreation, and Military Operations
	James Nordstrom, Manager of the Williamson Act Program	Land Use, Recreation, and Military Operations
Marine Corps Base Camp Pendleton	Larry Rannals, Community Plans & Liaison Officer	Public Services and Utilities, Cumulative Impact Analysis
	Hugh Cooper, Deputy Assistant Chief of Staff, Marine Corps Community Services	Land Use, Recreation, and Military Operations
	Agnula Burdan, Real Estate Specialist	Land Use, Recreation, and Military Operations
California Department of Transportation, District 11	Jacob Armstrong, Transportation Planner	Cumulative Impact Analysis
California State Department of Parks and Recreation, Orange Coast	Mike Tope, District Superintendent	Cumulative Impact Analysis
City of San Clemente Planning Division	Sheldon Ah Sing, Associate Planner	Cumulative Impact Analysis
City of Oceanside Planning Department	Jerry Hittleman, Senior Planner	Cumulative Impact Analysis
San Diego County Department of Planning and Land Use	Marette Esperance, Planning Manager	Cumulative Impact Analysis

J.3 List of Definitions and Acronyms

100-year discharge A stream flow caused by a discharge that is exceeded, on the average, only once in 100 years. A 100-year flood has a 1 percent chance of occurrence in any given year.

AAQS Ambient Air Quality Standard; a federal and state measure of the level of air contamination that is not to be exceeded in order to protect human health.

ACHP U.S. Advisory Council on Historic Preservation

ACCM Asbestos-containing construction materials

ACM Asbestos-containing materials

ACOE U.S. Army Corps of Engineers (see COE)

ADT Average Daily Trips/Traffic; number of vehicles traveling per normal day on a roadway.

Aerosol Wet or dry small particles in the atmosphere. Also called "particulate matter."

AHM Acutely hazardous material

Air Quality Standard The specified average concentration of an air pollutant in ambient air during a specified time period, at or above which level the public health may be at risk; equivalent to AAQS.

ALARA As Low As Reasonably Achievable

Algae A collective term for several taxonomic groups of primitive chlorophyll-bearing plants which are widely distributed in fresh and salt water and moist lands. This term includes the seaweeds, kelps, diatoms, pond scums, and stoneworts.

Ambient Air Any unconfined portion of the atmosphere; the outside air.

Ambient Noise Level Noise from all sources, near and far. Ambient noise level constitutes the normal or existing level of environmental noise at a given location.

APCD Air Pollution Control District; a regional government bureau responsible for attainment and management of air quality standards through permitting and regulating of the emission sources.

APEFZ Alquist-Priolo Earthquake Fault Zone.

APE Area of Potential Effect. The area within which an undertaking may directly or indirectly cause changes in the character or use of historic properties or cultural resources, should any be present.

Aquifer A permeable geologic unit such as sand or gravel that contains water and transmits it readily.

ARB Air Resources Board

ARP Accidental Release Plan

ASTM American Society for Testing Materials

Attainment Area An area having air quality as good as or better than the national ambient air quality standards as defined in the Clean Air Act. An area may be an attainment area for one pollutant and a non-attainment area for others.

Avifauna Birds.

A-Weighting A frequency measure of noise which simulates human perception.

B.P. Before Present. Radiocarbon dates are given as years “before present” (B.P.), which is usually defined as A.D. 1950.

Backhoe A self propelled machine with an arm equipped with a toothed shovel that scoops earth as the shovel is pulled toward the machine.

BACT Best Available Control Technology; the most improved devices or air emission reduction technology currently available for controlling pollutant emissions.

Baseline A set of existing conditions against which change is to be described and measured.

Benthic organisms Organisms that live on or in the bottom of a body of water.

Biomass All of the living material in a given area; often refers to vegetation.

Biota Living organisms.

BMP Best Management Practice

BTS (U.S.) Bureau of Transportation Statistics

CAAQS California Ambient Air Quality Standard (see also AAQS)

CAF Containment access facility

Cal Poly California Polytechnic State University

CalARP California Accidental Release Prevention

Cal-OSHA California Occupational Safety and Health Administration

CalCOFI California Cooperative Oceanic Fisheries Investigations

Caltrans California Department of Transportation

CARB California Air Resources Board, sometimes abbreviated as ARB

CBACT Best Available Control Technology for Construction Equipment; for any specific source, the currently available technology producing the greatest reduction of air pollutant emissions, taking into account energy, environmental, economic, and other costs.

CCA California Coastal Act

CCAA California Clean Air Act

CCC California Coastal Commission

CCR California Code of Regulations

CCRWQCB Central Coast Regional Water Quality Control Board

CDF California Department of Forestry and Fire Prevention

CDFG California Department of Fish and Game

CDMG California Division of Mines and Geology (see also DMG)

CDP Coastal Development Permit

CEC California Energy Commission

CEQA California Environmental Quality Act

CESA California Endangered Species Act

Cetacean An order of aquatic mostly marine mammals that include whales, dolphins, and porpoises.

CFR U.S. Code of Federal Regulations

cf(s) Cubic feet (per second)

CHP California Highway Patrol or Combined heat and power

CHRIS California Historical Resources Information System

CINMS Channel Islands National Marine Sanctuary

CIWMB California Integrated Waste Management Board

CNDDDB California Natural Diversity Data Base

CNEL Community Noise Equivalent Level; the averaging of noise levels on a measurement scale of decibels that increases the actual noise measurement, to account for an increased sensitivity to noise during late evening, nighttime, and morning hours (the increments are 5 dB from 7 to 10 p.m. and 10 dB from 10 p.m. to 7 a.m.).

CNPS California Native Plant Society

CO Carbon Monoxide; a colorless, odorless, toxic gas produced by incomplete combustion of carbon in fossil fuels

COE U.S. Army Corps of Engineers (see also ACOE)

CPUC California Public Utilities Commission

CRHP California Register of Historical Places

CRHR California Register of Historical Resources

Criteria Pollutants The 1970 amendments to the Clean Air Act required EPA to set National Ambient Air Quality Standards for certain pollutants known to be hazardous to human health. EPA has identified and set standards to protect human health and welfare for six pollutants: ozone, carbon monoxide, total suspended particulates, sulfur dioxide, lead, and nitrogen oxide.

CRMP Cultural Resource Management Plan

CRTP Cultural Resources Treatment Plan

Crustaceans A large class of mostly aquatic arthropods that have a chitinous or calcareous/chitinous exoskeleton, a pair of modified appendages, and two pairs of antennae.

CSC California Species of Concern

CSP California State Parks

Curie A measure of radioactivity based on the observed decay rate of approximately one gram of radium.

CWA Clean Water Act

CZLUO Coastal Zone Land Use Ordinance

dB The A-weighted decibel scale representing the relative insensitivity of the human ear to low-pitched sounds; decibels are logarithmic units that compare the wide range of sound intensities to which the human ear is sensitive.

DDE Dichlorodiphenyldichloroethylene; metabolite of DDT, but has no commercial use individually.

DDT Dichlorodiphenyltrichloroethane; common pesticide used before being banned in the U.S. in 1972.

Decibel (dB) A logarithmic unit which measures the pressure levels of sounds.

Demersal fish Fish species that occur on or near the sea floor.

DG Distributed generation

DMG California Division of Mines and Geology (see also CDMG)

DNA Deoxyribonucleic acid

DOC California Department of Conservation

DOE U.S. Department of Energy

DOI U.S. Department of the Interior; a federal Department that includes the following agencies: BLM, USFWS, Bureau of Mines, Bureau of Reclamation, etc. (Also see USDO)

DOT U.S. Department of Transportation.

DSM Demand Side Management, for example, home insulation, energy efficient appliances, etc.

DTSC California Department of Toxic Substances Control

DWR California Department of Water Resources

EA/FONSI Environmental Assessment/Finding of No Significant Impact

ECP Erosion Control Plan

EFH Essential Fish Habitat

EIR Environmental Impact Report; an environmental impact assessment document prepared in accordance with the California Environmental Quality Act (CEQA).

EIS Environmental Impact Statement; an environmental impact in accordance with the National Environmental Policy Act (NEPA).

EIR/S Environmental Impact Report and Statement, prepared as a single document for submission to both the state and federal governments and for public review. See EIR and EIS.

Entrainment The act of an organism such as eggs or larvae are drawn into a cooling system, through the heat exchanger, and then pumped back out.

EPA U.S. Environmental Protection Agency; a federal agency that works to protect the environment.

EPCRA Emergency Planning and Community Right-to-Know Act

Epifauna Benthic fauna living on the substrate

EPRI Electric Power Research Institute

EPZ Emergency Planning Zone

ERP Electric Resource Plan

ESA Federal Endangered Species Act

ESH Environmentally Sensitive Habitat; an area designated by governmental agencies as requiring special administration or protection.

ESHA Environmentally Sensitive Habitat Area; an area designated by governmental agencies as requiring special administration or protection.

ESU Evolutionary Significant Unit

Fault A fracture or zone of fractures in rock strata which have undergone movement that displaces the sides relative to each other, usually in a direction parallel to the fracture. Abrupt movement on faults is a cause of most earthquakes.

FEIR Final Environmental Impact Report.

FEIR/S Final Environmental Impact Report/Statement; last version of document submitted to both state and federal governments. See FEIR.

FEMA Federal Emergency Management Agency

Fissiped Terrestrial carnivore that has toes separated to the base includes the sea otter.

Flora Plants or plant life.

FMMP Farmland Mapping and Monitoring Program

FSAR Final Safety Analysis Report

FSC Federal Species of Concern

ft² Foot squared

ft Foot

Fugitive dust Airborne pulverized soil particles.

g (a) gram; (b) gravities, a unit of acceleration equal to that produced on free falling bodies at the earth's equator.

Generation The production of electricity from other forms of energy such as combustion, falling water or thermal transfer.

Generation Capacity Maximum electric production limit for which a generator is rated. The maximum limit fluctuates with changes in temperature or other environmental circumstances, depending on the type of machine.

GSA Geologic Study Area

GTCC Greater than Class C; refers to radioactive waste that exceeds Class C, the highest classification based on concentration of radionuclides.

H&SC California Health and Safety Code

HCM Highway Capacity Manual

HCP Habitat Conservation Plan

HMD Hazardous Materials Division

HMMP Hazardous Materials Management Plan

Horsepower A unit of power equivalent to 33,000 foot-pounds per minute or 745.7 watts of electricity.

Hr Hour

HSWA Hazardous and Solid Waste Amendments

HVAC Heating, Ventilating, and Air Conditioning

HWCL Hazardous Waste Control Law

Hz Hertz

Impingement The act of fish and other aquatic life being trapped against cooling water intake screens.

Infauna Benthic fauna living in the substrate.

Inversion A layer of air in the atmosphere in which the temperature increases with altitude at a rate greater than normal (adiabatic). Pollutants tend to be trapped below the inversion.

Invertebrate Animals that lack a spinal column.

ISFSI Independent Spent Fuel Storage Installation Project

kg Kilogram

kHz Kilohertz; a unit of alternating current or electromagnetic wave frequency equal to one thousand hertz (1,000 Hz).

km² Square kilometer.

KOP Key Observation Point; one or a series of points on a travel route or at a use area where the view of the Proposed Project would be most revealing.

kV Kilovolt. A measure of electric voltage, one thousand volts.

L10 An average of noise levels that are exceeded 10 percent of the time during the measurement period.

Leq Average level of sound determined over a specific period of time.

Ldn The average ambient noise level in dBA with levels between 10 p.m. and 7 a.m. increased by 10 dBA.

lb/day pounds per day; a unit of concentration for air emissions.

LBP Lead-based paint

LCP Local Coastal Program/Plan

Lead Agency For the proposed SONGS Steam Generator Replacement Project, the CPUC is the State Agency.

LF Linear feet

LLRW Low-level radioactive waste

LOS Level of Service; a measure of roadway congestion, ranging from A (free flowing) to F (highly congested).

LTSP Long Term Seismic Program

m² Meter squared; a unit of area.

m Meter, length equal to 30.48 inches.

Macroinvertebrate Pertaining to invertebrates that are visible to the naked eye.

Macroalgae Pertaining to large algae, such as kelp, as distinguished from microscopic algae.

MBTA Migratory Bird Treaty Act

mg Milligram

Micron One millionth of a meter.

ml Milliliter

mm Millimeter

MMCRP Mitigation, Monitoring, Compliance, and Reporting Program

MMPA Marine Mammal Protection Act

MMS Minerals Management Service

Monitoring station A mobile or fixed site equipped to measure instantaneous or average ambient air pollutant concentrations.

Mrem Millirem; one thousandth of a rem.

mrem/hour Millirem per hour; a unit of concentration of radiation

MRZ Mineral Resources Zone

MSDS Materials Safety Data Sheets

msl Mean sea level

mSv Micro-Sievert

MW Megawatt; a measure of electric power. One thousand kilowatts or one million watts.

MWe Megawatt electricity

NAAQS National Ambient Air Quality Standards; see AAQS.

NAHC Native American Heritage Commission

NASA National Aeronautics and Space Administration

NDE Non-destructive examination

NEPA National Environmental Policy Act

NESHAP National Emissions Standards for Hazardous Air Pollutants

NFPA National Fire Protection Association

NHPA National Historic Preservation Act

Nitrogen oxides A gaseous mixture of nitric oxide (NO) and nitrogen dioxide (NO₂) and symbolically represented as NO_x.

NMFS National Marine Fisheries Service

NO Nitric oxide. A molecule of one nitrogen and one oxygen atom.

NO₂ Nitrogen Dioxide. A molecule of one nitrogen and two oxygen atoms.

NO_x Nitrogen Oxides

NOAA National Oceanic and Atmospheric Administration

Noise level, median The level of noise exceeded 50 percent of the time. Usually specified as either the daytime or the nighttime median noise level. Also given the designation L50.

Non-anadromous Resident fish

NOP Notice of Preparation

NPDES National Pollutant Discharge Elimination System

NPPA Native Plant Protection Act

NRC U.S. Nuclear Regulatory Commission

NRHP National Register of Historic Places

Nuclide A general term applicable to all atomic forms of an element.

O₃ Ozone; a colorless gas formed by a complex series of chemical and photochemical reaction of reactive organic gases, principally hydrocarbons, with oxides of nitrogen, which is harmful to the public health, the biota and some materials.

OCA Owner-controlled area

OCS Outer Continental Shelf

OEHHA California Office of Environmental Health and Hazard Analysis

OES Office of Emergency Services

OHP California Office of Historic Preservation

OPR (CA) Governor's Office of Planning and Research

OSG Original Steam Generator

OSHA U.S. Occupational Safety and Health Administration, a federal agency regulating the health safety of the work place.

Particulate matter (particulates) Very fine sized solid matter or droplets, typically averaging one micron or smaller in diameter. Also called "aerosol."

PAZ Protective Action Zone

PCH Pacific Coast Highway; also California State Route/Highway 1

PEA Proponent's Environmental Assessment

PEL Permissible exposure level

Pelagic fish Fish species that are associated with the ocean surface or water column.

PG&E Pacific Gas and Electric Company. The Applicant for the Diablo Canyon Steam Generator Replacement Project.

pH A measure of acidity or alkalinity.

Phytoplankton Microscopic plants that form the base of the marine/aquatic food chain.

Pinniped Type of marine mammal that includes seals and sea lions.

PM_{2.5} Particulate matter less than 2.5 microns in diameter, which is small enough to be inhaled deeply into the lungs and cause disease.

PM₁₀ Particulate matter less than 10 microns in size, which is small enough to be inhaled deeply into the lungs and cause disease.

ppb Parts per billion

ppm Parts per million

ppt Parts per thousand

PRC Public Resources Code

PSL Port San Luis Harbor District

PSM Process safety management

PTO Permit to Operate; Granted by the APCD after source testing and validation of permits.

PV Photovoltaic

PWR Pressurized water reactor

RACM Regulated asbestos-containing materials

Radionuclide An unstable form of nuclide that emits particles or radiation such as alpha rays, beta rays, or gamma rays.

RCA Radiation Controls Area

RCRA Resource Conservation and Recovery Act

rem Roentgen Equivalent Man. A unit of equivalent dose that relates the absorbed dose in human tissue to the effective biological damage of the radiation

RFO Refueling and maintenance outage

Riparian Area along the banks of a river or lake supporting specialized plant and animal species.

Riprap A foundation constructed of broken stones or boulders loosely placed or thrown together, as in deepwater, on a soft bottom, or as a seawall to protect against erosion.

RMP Resource Management Plan

RMPP Risk Management and Prevention Program

RO Reverse osmosis

ROW Right of way; an easement, lease, permit, or license across an area or strip of land to allow access or to allow a utility to pass through public or private lands.

RPS Renewables Portfolio Standard

RSG Replacement Steam Generator

Ruderal Growing where the natural vegetation cover has been disturbed.

RWQCB Regional Water Quality Control Board

SAR Safety Analysis Report

SARA Superfund Amendments and Reauthorization Act

SCE Southern California Edison. The Applicant for the SONGS Steam Generator Replacement Project.

SCF Standard cubic foot; a measure of volume or rate of flow of liquid.

SCH (California) State Clearinghouse

SCR Selective catalytic reduction

SCS Soil Conservation Service

SEA Significant Ecological Area; an area containing an ecosystem of value and requiring government protection.

Seismicity The relative frequency and distribution of earthquakes.

Sensitive Receptor Land uses adjacent to or within proximity to the Proposed Project that could be impacted by construction, operation, and maintenance activities.

SF Square feet

SFP Spent fuel pool

SHPO State Historic Preservation Office.

SLO San Luis Obispo

SLOAPCD San Luis Obispo County Air Pollution Control District

SLOCOG San Luis Obispo Council of Governments

SLOCP San Luis Obispo County Parks

SOx Sulfur oxides. The group of compounds formed during combustion or thereafter in the atmosphere of sulfur compounds in the fuel, each having various levels of oxidation, ranging from two oxygen atoms for each sulfur atom to four oxygen atoms.

SO₂ Sulfur dioxide; a corrosive and poisonous gas produced from the complete combustion of sulfur in fuels.

SR State Route

SRA Sensitive Resource Area

Substrate Geologic term describing soil or geologic layers underlying the ground surface.

Sulfates Compounds in air or water that contain four oxygen atoms for each sulfur atom. See SOx.

Sulfur oxides A gaseous mixture of sulfur dioxide (SO₂) and sulfur trioxide (SO₃) and symbolically represented as SOx. Can include particulate species such as sulfate compounds (-SO₄).

Sv, Sievert. A unit of radiation dosage equal to 100 rem, for deriving a quantity called equivalent dose. This relates the absorbed dose in human tissue to the effective biological damage of the radiation. Not all radiation has the same biological effect, even for the same amount of absorbed dose. Equivalent dose is often expressed in terms of millionths of a Sievert, or micro-Sievert. One Sievert is equivalent to 100 rem

SWPPP Storm Water Pollution Prevention Plan

SWRCB State Water Resources Control Board

TAC Toxic Air Contaminants

TDM Transportation Demand Management; a system of analysis designed to reduce traffic levels and thereby reduce air pollution.

TEMP Thermal Effects Monitoring Program

Terrestrial Related to or living on land. Terrestrial biology deals with upland areas as opposed to shorelines or coastal habitats.

TLD Temporary lifting device

Topography The physical features of a surface area including relative elevations and the position of natural and man-made (anthropogenic) features.

tpd Tons per day

TSA Temporary Staging Area

TWG Technical Workgroup

µg/L Micrograms per liter; a unit of mass concentration in liquids.

µg/m³ Millionths of a gram per cubic meter, a unit of concentration in liquids or gases.

µm micrometer

U.S. Census U.S. Census Bureau

USA Underground Service Alert; also “Dig Alert.”

USACE U.S. Army Corps of Engineers

USDA U.S. Department of Agriculture

USDOC U.S. Department of Commerce

USDOI U.S. Department of the Interior

USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey

UST Underground storage tank

V/C Volume to Capacity ratio; a measure of the capacity of a roadway. When V/C is 100 percent, no more traffic can be accommodated.

Viewshed The landscape visible from a particular vantage point

VMT Vehicle miles traveled, usually per day

VOC Volatile organic compounds; an air pollutant that is a precursor to the criteria pollutant ozone

vpd Vehicles per day; see Transportation

vph Vehicles per hour

VRM Visual Resource Management

Watershed The area contained within a drainage divide above a specified point on a stream.

WDP Waste Discharge Permit

WDR Waste Discharge Requirement

Wetland Lands transitional between obviously upland and aquatic environments. Wetlands are generally highly productive environments with abundant fish, wildlife, aesthetic, and natural resource values. For this reason, coupled with the alarming rate of their destruction, they are considered valuable resources, and several regulations and laws have been implemented to protect them.

Williamson Act Also California Land Conservation Act of 1965.

WRCC Western Regional Climate Center

Zooplankton Microscopic marine/aquatic animals generally carried within a water mass.