



Los Angeles World Airports
Global Leader in
Airport **Sustainability**

PHASE III ACRONYMS: LAX Air Quality and Source Apportionment Study

AC – automated calibration
AERMOD – American Meteorology Society/Environmental Protection Agency Regulatory Model
ANOMS – Aircraft Noise and Operations Monitoring System
APU – auxiliary power units
AQ site – SCAQMD Hastings site
ASOS – Automated Surface Observation System
ASPM – Aviation System Performance Metrics
ATCT – Air Traffic Control Tower
BAAQMD – Bay Area Air Quality Management District
BAM – beta attenuation monitor
BC – black carbon
Be – beryllium
BOAC – Board of Airport Commissioners
BTEX – benzene, toluene, ethyl benzene, and xylenes
BTS – Bureau of Transportation Statistics
CalTrans – California Department of Transportation
CARB – California Air Resources Board
CBA – Community Benefits Agreement
CDM Smith – Camp, Dresser, and McKee, Smith
CE site – Community East site
CEMs – Continuous Emission Monitors
CHAPIS – Community Health Air Pollution Information System
CMAQ – Community Multiscale Air Quality
CMB – Chemical Mass Balance
CN site – Community North site
CNG – compressed natural gas
CO – carbon monoxide
CO₂ – carbon dioxide
CPC – condensation particle counter
CS site – Community South site
CTA – Central Terminal Area

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Cu – copper
DNPH - 2,4-Dinitrophenylhydrazine
DRI – Desert Research Institute
EC – elemental carbon
EDMS – Emissions and Dispersion Monitoring System
EIR – Environmental Impact Report
EIS – Environmental Impact Statement
ESD – Environmental Service Department
FAA – Federal Aviation Administration
FID – flame ionization detector
FIND – Facility Information Detail
FMPS – Fast Mobility Particle Sizer
FOA – First Order Approximation Method
GA – general aviation
GC/MS – gas chromatography/mass spectrometry
GPS – global positioning system
GPU – ground power units
GSE – ground service equipment
HCMS – Harbor Communities Monitoring Study
HPLC – high performance liquid chromatography
Hz – Hertz
IMC – instrument meteorological conditions
INV – invalid
LADOT – Los Angeles Department of Transportation
LADWP – Los Angeles Department of Water and Power
LAWA – Los Angeles World Airports
LAX – Los Angeles International Airport
LAX AQSAS – LAX Air Quality and Source Apportionment Study
LPG – liquefied petroleum gas
LTO – landing/take-off
Man 0/S – manual calibration
MAP – Modeling and Analysis Protocol
MATES II – Multiple Air Toxics Exposure Study II
MMBTU – Million British Thermal Units
Mn – manganese
MP – multi-point calibration
MQAPP – Monitoring and Quality Assurance Project Plan
MRI – Midwest Research Institute
Na – sodium
NA – not available
NCDC – National Climatic Data Center
NDIR – non-dispersive infrared sensor
ng/m³ – nanograms per cubic meter
Ni – nickel

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NMHC – non methane hydrocarbons
NO – nitric oxide
NO₂ – nitrogen dioxide
NO_x – nitrogen oxides
NTA – nonparametric trajectory analysis
NWS – National Weather Service
QA – quality assurance
QC – quality control
OC – organic carbon
OEHHA – Office of Environmental Health Hazard Assessment
PAH – polycyclic aromatic hydrocarbons
PAMS – Photochemical Assessment Monitoring Station
PCA – pre-conditioned air
pDR – personal DataRAM
PeMS – Performance Measurement System
PM₁₀ – particulate matter equal to or less than 10 micrometers
PM_{2.5} – particulate matter 2.5 um in diameter
ppb – parts per billion
ppbv – parts per billion by volume
ppm – parts per million
ppt – parts per trillion
PSD – particle size distribution
PST – Pacific Standard Time
R² – coefficient of determination
RECLAIM – Regional Clean Air Incentives Market
RH – relative humidity
ROG – reactive organic gases
SCAG – Southern California Association of Governments
SCAQMD – South Coast Air Quality Management District
SCE – source contribution estimates
SFS – sequential filter sampler
SMPS – scanning mobility particle sizer
SO₂ – sulfur dioxide
SO_x – sulfur oxides
SOA – secondary organic aerosols
SoCAB – South Coast Air Basin
SODAR – sonic detecting and ranging
SP – span
SPAS – Specific Plan Amendment Study
SR site – South Runway site
SVHC – semi-volatile hydrocarbons
SVOC – semi-volatile compounds

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TC – total PM_{2.5} carbon
TD – thermal denuder
THC – total hydrocarbons
TIGF – Teflon-impregnated glass fiber filters
TLCS – Trinity Lutheran Church School
TOG – total organic gases
TWG – Technical Working Group
µg/m³ – micrograms per cubic meter
U – uranium
UFP – ultrafine particulates
UHP – ultra-high purity
UNID – unidentified component in CMB analysis
USC – University of Southern California
U.S. EPA – United States Environmental Protection Agency
USGS – United States Geological Society
UTM – Universal Transverse Mercator
UW – upwind
VMC – visual meteorological conditions
VOC – volatile organic compounds
VTDMA – volatility tandem differential mobility analyzer
WOMS – West Oakland Monitoring Study
χ² – chi-square
XRF – x-ray fluorescence
Z – zero



Photo: Jay Berkowitz, LAWA.