



VOLUME I

**2007 LONG RANGE DEVELOPMENT PLAN
FINAL ENVIRONMENTAL IMPACT REPORT
NOVEMBER 2007**

FINAL
ENVIRONMENTAL IMPACT REPORT
for the
UNIVERSITY OF CALIFORNIA, IRVINE
2007 LONG RANGE DEVELOPMENT PLAN

SCH No. 2006071024

VOLUME I

Prepared for



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**VOLUME II
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- B Air Quality Technical Report and Health Risk Assessment
- C Biology Technical Report
- D Noise Technical Report
- E Traffic Analysis Report

**VOLUME III
PROJECT LEVEL ENVIRONMENTAL IMPACT ANALYSES**

Project Level Environmental Impact Analysis for the University Hills Area 9/2 Housing Project

**VOLUME IV
COMMENTS, RESPONSES, AND REVISIONS TO THE DRAFT EIR**

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ACRONYMS AND ABBREVIATIONS

A

| | |
|--------|--|
| AAALAC | International Association for Assessment and Accreditation of Laboratory Animal Care |
| AASHTO | American Association of State Highway and Transportation Officials |
| ACOE | U.S. Army Corps of Engineers |
| ADA | Americans with Disabilities Act |
| ADT | average daily traffic |
| AMSL | above mean sea level |
| AP | Accessible Parking |
| A-P | Alquist-Priolo |
| APCD | Air Pollution Control District |
| APE | area of potential effects |
| APHIS | Animal and Plant Health Inspection Service |
| APZs | Accident Potential Zones |
| AQMP | Air Quality Management Plan |
| ARC | Anteater Recreation Center |
| ASTs | aboveground storage tanks |
| ASUCI | Associated Students of UC Irvine |
| AVR | average vehicle ridership |

B

| | |
|------|---------------------------|
| BMPs | best management practices |
| BSL | Biosafety Level |

C

| | |
|----------|--|
| CAA | Clean Air Act |
| CAAQS | California Ambient Air Quality Standards |
| CAC | Chancellor's Advisory Council |
| Cal/OSHA | California Occupational Safety and Health Administration |
| CalARP | California Accidental Release Prevention Program |
| Caltrans | California Department of Transportation |
| CARB | California Air Resources Board |
| CBC | California Building Code |
| CCAA | California Clean Air Act |
| CCC | California Coastal Commission |
| CCR | California Code of Regulations |

| | |
|-----------------|--|
| CDC | Centers for Disease Control and Prevention |
| CDFG | California Department of Fish and Game |
| CDMG | Department of Conservation, Division of Mines and Geology |
| CDP | Coastal Development Permit |
| CEQA | California Environmental Quality Act |
| CERCLIS | Comprehensive Environmental Response Compensation and Liability Information System |
| CESA | California Endangered Species Act |
| CFC | chlorofluorocarbons |
| CFR | Code of Federal Regulations |
| cfs | cubic feet per second |
| CHP | California Highway Patrol |
| CHW | chilled water |
| CIP | Capital Improvement Program |
| CIWMB | California Integrated Waste Management Board |
| CNDDDB | California Natural Diversity Data Base |
| CNEL | Community Noise Equivalent Level |
| CNG | compressed natural gas |
| CNPS | California Native Plant Society |
| CO | carbon monoxide |
| CO ₂ | carbon dioxide |
| COI | Conflict of Interest |
| County DEH | Orange County Department of Environmental Health |
| CPEC | Campus Physical and Environmental Committee |
| CRHR | California Register of Historic Resources |
| CSDOC | County Sanitation District of Orange County |
| CTC | California Transportation Commission |
| CUPA | Certified Unified Program Agency |
| CWA | Clean Water Act |

D

| | |
|-------|---|
| D&C | UCI Design and Construction Services |
| dB | decibel |
| dB(A) | decibel scale adjusted for A-weighting |
| DEH | County Department of Environmental Health |
| DHS | California Department of Health Services |
| DMV | California Department of Motor Vehicles |
| DNA | deoxyribonucleic acid |
| DNL | Day-Night Average Sound Level |
| DOF | Department of Finance |
| DP | Disabled Person |

| | |
|------|---|
| DPR | California Department of Parks and Recreation |
| DRT | Design Review Team |
| DTSC | California EPA Department of Toxic Substances Control |
| DUI | Driving Under the Influence |

E

| | |
|-------|--|
| EH&S | UCI Environmental Health and Safety Office |
| EIR | Environmental Impact Report |
| EMC | Emergency Management Committee |
| EMFAC | emission factor model |
| EMS | Energy Management System |
| EOC | Emergency Operations Center |
| EPA | U.S. Environmental Protection Agency |
| ERT | Emergency Response Teams |
| ESA | Endangered Species Act |
| ESL | Environmentally Sensitive Lands |

F

| | |
|----------|---|
| °F | degrees Fahrenheit |
| FAA | Federal Aviation Administration |
| FDA | Food and Drug Administration |
| Fed/OSHA | Federal/Occupational Safety and Health Administration |
| FEMA | Federal Emergency Management Agency |
| FHWA | Federal Highway Administration |
| FICUN | Federal Interagency Committee on Urban Noise |
| FIFRA | Federal Insecticide, Fungicide, and Rodenticide Act |
| FMMP | Farmland Mapping and Monitoring Program |
| FRA | Federal Railroad Administration |
| FRB | Frank R. Bowerman landfill |
| FTA | Federal Transit Administration |

G

| | |
|-----|-------------------------------------|
| gpm | gallons per minute |
| GPS | global positioning system |
| gsf | gross square feet |
| GTG | natural gas-fired turbine generator |
| GWP | global warming potential |

H

| | |
|------|---|
| HABS | Historic American Building Survey |
| HAER | Historic American Engineering Record |
| HAPs | hazardous air pollutants |
| HAs | hydrologic areas |
| HCD | Housing and Community Development |
| HCFC | hydrochlorofluorocarbons |
| HCM | Highway Capacity Manual |
| HEPA | high-efficiency particulate air |
| HFC | hydrofluorocarbons |
| HI | hazard index |
| HMMP | Hazardous Materials Management Plan |
| HRA | health risk assessment |
| HRSG | heat recovery steam generator |
| HTHW | high temperature hot water |
| HU | hydrologic unit |
| HUD | Department of Housing and Urban Development |
| HVAC | heat, ventilation, and air conditioning |
| HVLP | high volume-low pressure |
| Hz | hertz |

I

| | |
|--------|---|
| I-405 | Interstate 405 |
| I-5 | Interstate 5 |
| IA | Implementation Agreement |
| IACUC | Institutional Animal Care Use and Committee |
| IBC | Institutional Biosafety Committee |
| IBC | Irvine Business Complex |
| ICHA | Irvine Campus Housing Authority |
| ICU | intersection capacity utilization |
| IMS | Incident Management System |
| in/sec | inches per second |
| IPCC | Intergovernmental Panel on Climate Change |
| IPD | City of Irvine Police Department |
| IRB | Institutional Review Board |
| IRWD | Irvine Ranch Water District |
| ISCST3 | Industrial Source Complex Short Term 3 |

| | |
|-------------------|--|
| ITAM | Irvine Transportation Analysis Model |
| IUSD | Irvine Unified School District |
| IWMD | Integrated Waste Management Department |
| J | |
| JWA | John Wayne Airport/Orange County Airport |
| K | |
| kg | kilograms |
| KV | kilovolt |
| kWh | kilowatts-hours |
| L | |
| LAWRP | Los Alisos Water Reclamation Plant |
| LCP | Local Coastal Program |
| Ldn | Day-Night Average Sound Level |
| LEED | Leadership in Energy and Environmental Design |
| Leq | equivalent energy noise level |
| LLRW | low-level radioactive waste |
| LOS | Level of Service |
| LRDP | Long Range Development Plan |
| M | |
| µg/m ³ | micrograms per cubic meter |
| MACT | Maximum Achievable Control Technology |
| MBTA | Migratory Bird Treaty Act |
| MCAS | Marine Corps Air Station |
| MCTM | UCI Main Campus Traffic Model |
| MEI | maximally exposed individual |
| MEP | maximum extent practicable |
| mgd | million gallons per day |
| MHPA | Multiple Habitat Planning Area |
| MLD | Most Likely Descendent |
| mm | millimeters |
| MM | mitigation measure |
| MMRP | Mitigation Monitoring Reporting Program |
| MOU | Memorandum of Understanding |
| MPAH | Orange County Master Plan of Arterial Highways |
| mph | miles per hour |
| MS4 | municipal separate storm sewer systems |

| | |
|------------------|---|
| MSCP | Multiple Species Conservation Program |
| MSL | mean sea level |
| MW | megawatts |
| MWRP | Michelson Water Reclamation Plant |
| mya | million years ago |
| N | |
| N ₂ O | nitrous oxide |
| NAAQS | National Ambient Air Quality Standards |
| NAGPRA | Native American Graves Protection and Repatriation Act |
| NAHC | Native American Historic Commission |
| NBTM | Newport Beach Traffic Model |
| NCCP /HCP | Natural Communities Conservation Plan/Habitat Conservation Plan |
| NCI | National Cancer Institute |
| NESHAPs | National Emission Standards for Hazardous Air Pollutants |
| NHPA | National Historic Preservation Act of 1966 |
| NIH | National Institutes of Health |
| NIOSH | National Institute for Occupational Safety and Health |
| NO ₂ | nitrogen dioxide |
| NOI | Notice of Intent |
| NOP | Notice of Preparation |
| NO _x | nitrogen oxide |
| NPDES | National Pollution Discharge Elimination System |
| NPL | National Priority List |
| NRC | Nuclear Regulatory Commission |
| NRHP | National Register of Historic Places |
| O | |
| O ₃ | ozone |
| O&M | Operations and Maintenance |
| OCFA | Orange County Fire Authority |
| OCTA | Orange County Transportation Authority |
| OCTAM | Orange County Transportation Analysis Model |
| OEHHA | California Office of Environmental Health Hazard Assessment |
| OSHA | Occupational Health and Safety Agency |
| OSM | Federal Office of Surface Mining |

P

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|-------------------|---|
| Pb | lead |
| PCBs | polychlorinated biphenyls |
| PEIR | Program Environmental Impact Report |
| PFC | perfluorocarbons |
| PHS | U.S. Public Health Service |
| PI | Principal Investigator |
| PM ₁₀ | particulate matter less than 10 microns in diameter |
| PM _{2.5} | particulate matter equal to or smaller than 2.5 microns in diameter |
| POST | Peace Officer Standards and Training |
| ppm | parts per million |
| ppt | parts per trillion |
| PPV | peak particle velocity |
| PRC | Public Resources Code |
| PTS | UCI Parking and Transportation Services |

R

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|-------|---|
| R&D | Research and Development |
| RCRA | Resource Conservation and Recovery Act |
| RCRIS | Resource Conservation and Recovery Information System |
| REL | Reference Exposure Level |
| RfD | reference doses |
| RGMS | Regional Growth Management Strategy |
| RHNA | regional housing needs allocation |
| RHNS | Regional Housing Needs Statement |
| RMPP | California Risk Management and Prevention Program |
| ROC | reactive organic compounds |
| ROC | Regional Operations Center |
| ROG | reactive organic gases |
| RPA | registered professional archaeologist |
| RSC | Radiation Safety Committee |
| RSSC | Radiation Safety and Surveillance Committee |
| RTIP | 2006 Regional Transportation Improvement Program |
| RTP | 2004 Regional Transportation Plan |
| RUA | Radiation Use Authorization |
| RUZ | Restricted Use Zone |
| RWQCB | Regional Water Quality Control Board |

S

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|-----------------|--|
| SCAG | Southern California Association of Governments |
| SCAB | South Coast Air Basin |
| SCE | Southern California Edison |
| SCG | Southern California Gas Company |
| SCQAMD | South Coast Air Quality Management District |
| SDMP | Storm Drain Master Plan |
| SF ₆ | sulfur hexafluoride |
| SHPO | State Historic Preservation Office |
| SIC | Standard Industrial Classification |
| SIP | State Implementation Plan |
| SJFM | San Joaquin Freshwater Marsh Reserve |
| SO ₂ | sulfur dioxide |
| SO _x | sulfur oxides |
| SOCWA | South Orange County Wastewater Authority |
| SPCC | Spill Prevention Control and Countermeasure |
| SR-73 | State Route 73 |
| SR-55 | State Route 55 |
| SR-1 | State Route 1 |
| STIP | 2002 State Transportation Improvement Program |
| SVE | soil vapor extraction |
| SVOC | semi-volatile organic compounds |
| SWMP | Storm Water Management Plan |
| SWPPD | Storm water pollution prevention drawings |
| SWPPP | Storm Water Pollution Prevention Plan |
| SWRCB | State Water Resources Control Board |

T

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|-------------|--|
| TAC | toxic air contaminant |
| T-BACT | Best Available Control Technology for Toxics |
| TDM | Transportation Demand Management |
| The Regents | The Board of Regents of the University of California |
| TRB | Transportation Research Board |
| TUSD | Tustin Unified School District |

U

| | |
|--------|---|
| UBC | Uniform Building Code |
| UC | University of California |
| UCI | University of California, Irvine |
| UCITP | UCI Transportation Program |
| UCOP | University of California, Office of the President |
| UCNRS | University of California Natural Reserve System |
| UPS | Uninterrupted Power Supply |
| URF | unit risk factor |
| URP | University Research Park |
| USACOE | U.S. Army Corps of Engineers |
| USC | United States Code |
| USDA | U.S. Department of Agriculture |
| USDOT | U.S. Department of Transportation |
| USFWS | U.S. Fish and Wildlife Service |
| UST | underground storage tank |
| UTC | University Town Centre |
| UWMP | Urban Water Management Plan |

V

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|-----|----------------------------|
| V/C | volume-to-capacity |
| VOC | volatile organic compounds |

W

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|--------|--|
| WCATWC | West Coast and Alaska Tsunami Warning Center |
| WDRs | waste discharge requirements |
| WRCC | Western Regional Climate Center |

Z

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|---------|--|
| ZEV-NET | Zero Emission Vehicle – Network Enabled Transportation |
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