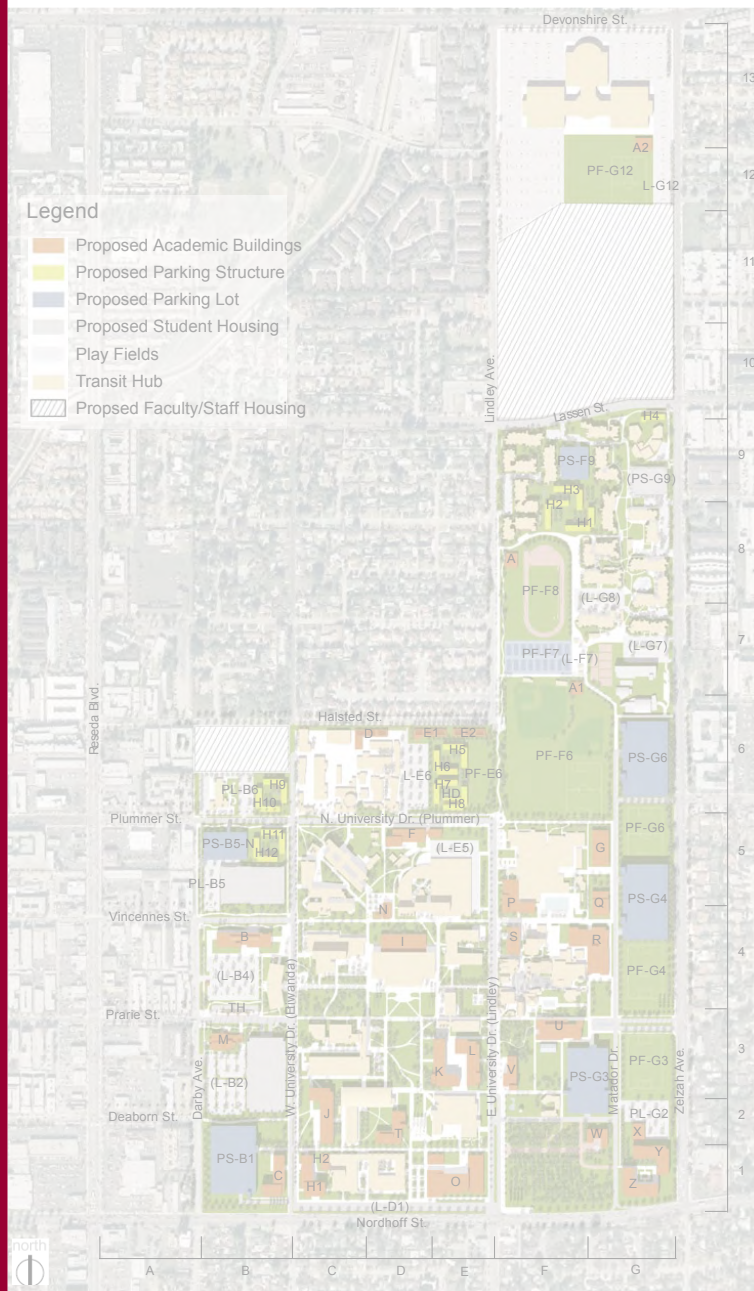


VOLUME II OF II: TECHNICAL APPENDICES

2005 MASTER PLAN UPDATE

California State University
Northridge

SCH #2005051008



NOVEMBER 2005

VOLUME II OF II: TECHNICAL APPENDICES

2005 MASTER PLAN UPDATE

California State University
Northridge

SCH #2005051008



Prepared for:
California State University, Northridge
Contact: Colin Donahue, Director,
Facilities Planning,
Design and Construction
18111 Nordhoff Street
Northridge, CA 91330-8219

Prepared by:
Impact Sciences, Inc.
Contact: Anne Doehne
234 E. Colorado Boulevard
Suite 205
Pasadena, CA 91101

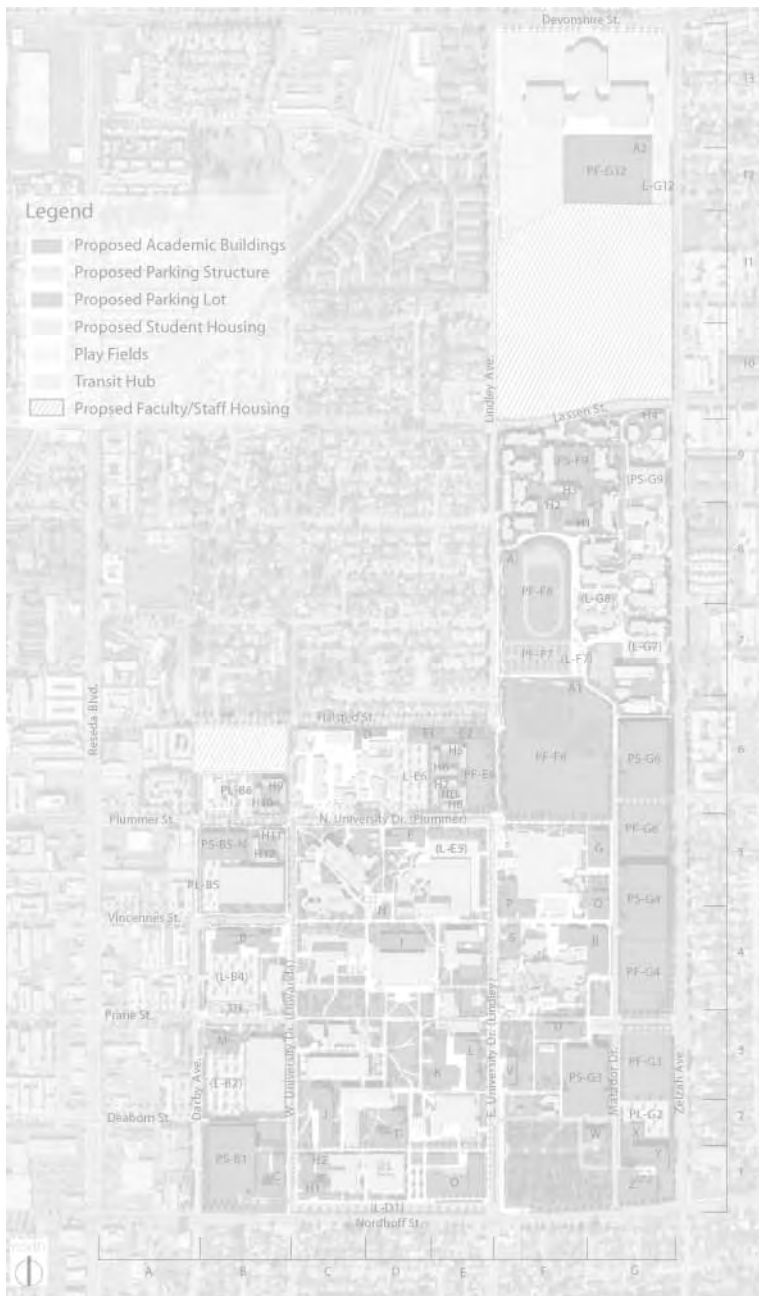
NOVEMBER 2005

APPENDIX A

NOTICE OF PREPARATION (NOP); PUBLIC COMMENTS ON NOP; SCOPING MEETING MATERIALS

2005 MASTER PLAN UPDATE

California State University
Northridge



NOTICE OF PREPARATION

To: _____
(Agency)

(Address)

Subject: Notice of Preparation of a Draft Environmental Impact Report

Lead Agency:	Consulting Firm (if applicable):
Agency Name: <u>Trustees of the California State University</u> <u>California State University, Northridge</u>	Firm Name: <u>Impact Sciences, Inc.</u>
Street Address: <u>18111 Nordhoff Street</u>	Street Address: <u>234 E. Colorado Blvd., Suite 205</u>
City/State/Zip: <u>Northridge, CA 91330-8219</u>	City/State/Zip: <u>Pasadena, CA 91101</u>
Contact: <u>Colin Donahue, Director, FPDC</u> <u>(Facilities Planning, Design & Construction)</u>	Contact: <u>Anne Doehne, Project Manager</u>

California State University will be the Lead Agency and will prepare an environmental impact report (EIR) for the project identified below. We need to know the views of your agency concerning the scope and content of the environmental information that are germane to your agency's statutory responsibilities in connection with the proposed project. Your agency may need to use the EIR prepared by our agency when considering project impacts on resources for which you are responsible.¹

The project description, location, and the potential environmental effects are contained in the attached materials. A copy of the Initial Study (is is not) attached.

Due to the time limits mandated by State law, your response must be sent at the earliest possible date but *not later than 30 days* after receipt of this notice.

Please send your response to Colin Donahue at the address shown above. We will need the name for a contact person in your **agency**.

Project Title: Envision 2035, California State University, Northridge Master Plan

Project Location: Northridge Los Angeles
City (nearest) County

Project Description (brief): Envision 2035 is the 30-year master plan for the California State University, Northridge (CSUN) campus to accommodate future growth in compliance with California State University system requirements, through a proposed program of improvements to campus open

¹ Reference: California Administrative Code, Title 14 (CEQA Guidelines), Sections 15082(a), 15103, 15375.

space and landscaping; academic core facilities; housing; traffic and parking; and student services. The Master Plan would permit the development of approximately 1.15 million gross square feet of additional building area to accommodate up to 10,000 additional Full-Time Equivalent (FTE) students. CSUN currently has a maximum enrollment capacity of 25,000 FTEs; the Envision 2035 Master Plan would increase that capacity to 35,000 FTEs in order to help meet projected demand for higher education in California.

Date: _____

Signature: _____

Title: Colin Donahue, Director, FPDC

Telephone: (818) 677-2561

ENVISION 2035, CALIFORNIA STATE UNIVERSITY, NORTHRIDGE MASTER PLAN PROJECT DESCRIPTION

LEAD AGENCY

The Trustees of the California State University
California State University, Northridge
18111 Nordhoff Street
Northridge, California 91330-8219

LOCATION OF PROJECT

California State University, Northridge (CSUN) is centrally located in the community of Northridge, part of the City of Los Angeles. As shown in **Figure 1, Regional and Campus Map**, Northridge is located in the San Fernando Valley, approximately 22 miles northwest of downtown Los Angeles. Adjacent communities include Porter Ranch, Knollwood, Granada Hills, San Fernando, Panorama City, Van Nuys, Chatsworth, and West Hills. Major regional access to Northridge is provided by the Ronald Reagan Freeway (CA-118), the San Diego Freeway (I-405), and the Ventura Freeway (US-101). The community is also served by MetroLink's Ventura County Line, which extends from Union Station near downtown Los Angeles to Oxnard.

As shown in Figure 1, CSUN is located in north-central Northridge. The campus occupies a 356-acre suburban site and is divided into North and South campuses. The North Campus is bounded on the north by Devonshire Street; on the east by Zelzah Avenue; and on the west by Lindley Avenue. The South Campus is partially bounded on the north by Halsted Street; on the south by Nordhoff Street; on the east by Zelzah Avenue; and on the west by Darby Avenue.

DESCRIPTION OF PROJECT SITE

The California State University (CSU) system is part of the state's three-tiered educational system created under the 1954 State Master Plan for Higher Education. This system also includes the University of California four-year system and the two-year Community College system. CSUN is one of 23 CSU campuses and one of the 10 CSU campuses in Southern California. Enrollment for CSUN's Fall 2003 Semester was 32,997 students, or 24,472 Full-Time Equivalent (FTEs). The campus employs approximately 3,300 faculty and staff.

CSUN was established in 1956 as the San Fernando Valley Campus of Los Angeles State College, and was originally dedicated to teacher training. In 1958 it was renamed San Fernando Valley State College, one of seven state campuses created that year by the State Legislature. In 1972, the campus was designated as

California State University, Northridge, and has evolved into a comprehensive liberal arts and professional college, offering undergraduate degrees in 50 disciplines and graduate degrees in 41 disciplines, as well as professional credentials.

CSUN is presently developed with just over 3.4 million gross square feet of building area housed in approximately 100 buildings. The campus comprises a collection of academic and administrative buildings, student housing, athletic facilities and playfields, and quads and courtyards, with perimeter parking structures and surface parking lots.

Surrounding land uses include a mix of low-density single-family and multi-family residential neighborhoods to the north and east, with scattered commercial uses near the campus; and predominantly single-family residential neighborhoods to the south. The North Campus is bordered on the west by single and multi-family residential neighborhoods, while land uses west of the South Campus are predominantly multi-family residential housing, with Northridge's designated commercial center lining the Reseda Boulevard corridor.

DESCRIPTION OF PROJECT

The CSU system requires each campus to maintain a master plan guiding its development. The CSU system further requires that the campuses undertake periodic review and revision of their master plans, in part to ensure that proposed capital improvement programs remain in compliance with those plans. The CSU system is designed to accept the top academic one-third of graduating high school students, and each campus within the system is required to accommodate its share of present and anticipated future students. The CSU system is facing unprecedented projected demand for higher education over the next 10 years and beyond.

The Envision 2035 Master Plan is the first major revision of the CSUN Master Plan since 1998. The 1998 Campus Master Plan was developed in response to the January 1994 Northridge earthquake, which damaged many buildings on the CSUN campus and led to the demolition of a number of facilities. Accordingly, the focus of the 1998 plan was the reconstruction of damaged facilities and infrastructure; siting of replacement buildings in the campus core; vehicular and pedestrian circulation improvements; and identification of the need for future improvements.

The goals established by the 1998 Campus Master Plan have largely been met. Consequently, the present Envision 2035 Master Plan is intended to build on the success of its predecessor, accommodate the projected increase in student population over the next 30 years, and allow for the existing academic programs and support services to modernize, expand, and improve.

These changes are planned to take place over a 30-year period within the existing campus boundaries.

The scope of the Envision 2035 Master Plan includes the following:

- Accommodating students through campus growth and improvements in the areas of academic curricula, support services, housing opportunities, and parking facilities;
- Functional enhancements of physical facilities and features, including buildings, open space and recreational/athletic facilities, vehicular—bicycle—pedestrian circulation, and utility/technology upgrades; and
- Aesthetic enhancements including, but not limited to, landscaping, open space reconfiguration, design guidelines, campus perimeter enhancements, and environmental protection.

The Envision 2035 Master Plan focuses on five key planning components: Landscape and Open Space; Academic Core; Housing; Traffic and Parking Management; and Student Services. These topics were derived from a year-long and ongoing process that included consideration of sound campus planning principles, input received from the CSUN Envision 2035 Master Plan Committee, and solicitation of campus and community feedback.

Each of the five project components is briefly described below.

The **Landscape and Open Space** component proposes to create a view “window” into the campus from Nordhoff Street; preserve and enhance existing quads; frame open space courtyards and pedestrian pathways through the careful siting of new buildings; increase the number of shaded seating areas for casual use; preserve and revitalize the orange grove; reinforce the campus identity through the use of signature perimeter landscaping; and increase playfields for instructional, recreational, and athletics use by nearly five acres, to 45.6 acres.

The **Academic Core** component proposes to accommodate and concentrate new academic growth in the campus core; develop 1.15 million gross square feet of new academic/administrative space while maintaining the campus open-space system; recommend potential sites for future facilities; ensure expansion potential for all academic programs; and provide for the strategic location of campus activity “hubs”. This expansion would increase CSUN’s Master Plan enrollment capacity by 10,000 FTEs, from the existing 25,000 FTE capacity to 35,000.

The **Housing** component would increase housing availability and choices for students, faculty, and staff. For students, the Master Plan proposes to create up to 2,500 new bedspaces, including University Park Apartments infill, two new student housing clusters near the campus academic core, a new dining facility, and nearby student residential parking. For faculty and staff, the Master Plan proposes up to 600 new units on campus, including a mix of housing accommodations yet to be determined; amenities such as open space and recreational areas; and space for ground-floor retail establishments.

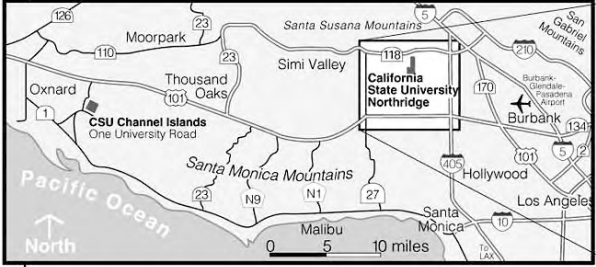
Proposed **Traffic and Parking Management** features include a net increase of up to 4500 parking spaces accommodated mainly in parking structures; the provision for balanced parking across the east and west sides of the campus; the development of a transit hub within the campus; landscaped vehicular entries; a new campus entrance from Nordhoff Street; reconfiguration of campus pedestrian circulation to emphasize pedestrian zones; and implementation of a second campus tram route.

The **Student Services** component includes a recommended site for a new Student Recreation Center near the University Student Union and playfields; a site for a new Student Health Center; and a new student dining center.

The Envision 2035 Master Plan would be implemented incrementally over the course of its 30-year life, although specific development proposals are likely to be identified, constructed, and put into operation following project approval by The Trustees of the CSU.

California State University Northridge

18111 Nordhoff Street
Northridge, California
91330



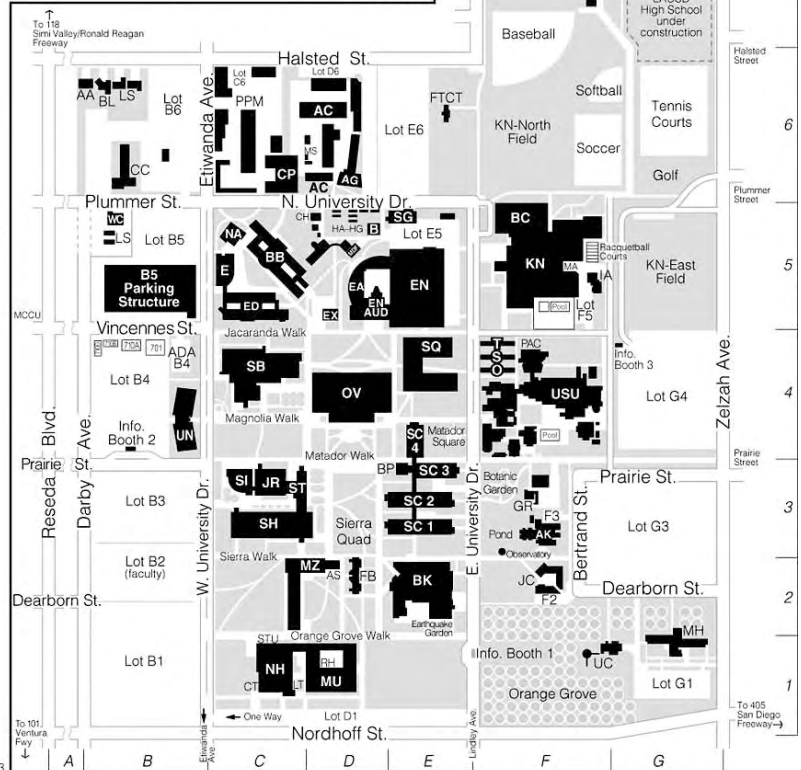
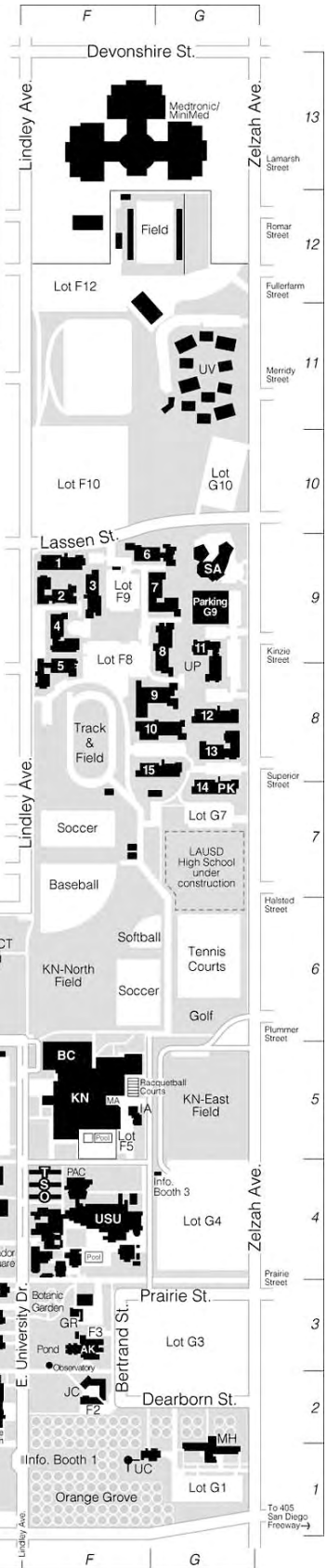
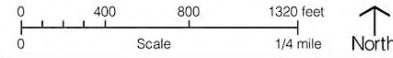
Building Name—Grid Location

- AA Asian American Studies House—B6
- AC Art Design Center—D6
- AG Art Gallery—D6
- AK Addie Klotz Student Health Center—F3
- AS Armer Screening Room—D2
- B Building "B"/Bank Building—D5
- BB Business and Economics Building—C5
- BL Black House—B6
- BP Donald Bianchi Planetarium—E3
- BC The Abbott and Linda Brown Western Center for Adaptive Aquatic Therapy—F5
- BK Bookstore Complex, Matador—E2
- CC Children's Center—B6
- CH Chicano House—D5
- CI CSU Channel Islands
- CP Central Plant—C6
- CT Campus Theatre—C1
- E Education Administration—C5
- EA Engineering Addition—D5
- ED Michael D. Eisner College of Education—C5
- EN Auditorium, Engineering—D5
- EN Engineering Building—E5
- EX The Exchange (Food)—D5
- FB Faculty Office Building—D2
- GR Greenhouse—F3
- HA "H" Complex—D5
- HB "H" Complex—D5
- HC "H" Complex—D5
- HD "H" Complex—D5
- HE "H" Complex—D5
- HF "H" Complex—D5
- HG "H" Complex—D5
- IA Intercollegiate Athletics Office—F5
- JC Jeanne Chisholm Hall/NCOD—F2
- JR Jerome Richfield Hall—C3
- KN Kinesiology—F5
- KN CRTS Racquetball—F5, Tennis Courts—G6
- KN EFLD (East Field)—G5
- KN GOLF—G6
- KN NFLD (North Field)—F6
- KN POOL—F5
- KN FTCT (Fitness Center/Nautilus)—E6
- LS Child and Family Studies Lab School 18330 & 18338 Halsted—B6 and B5
- LT Little Theatre—C1
- MH Monterey Hall—G1
- MU Music Building—D1
- MS MFA Studios—D6
- MZ Manzanita Hall—D2
- NA Charles H. Noski Auditorium—C5
- NH Nordhoff Hall—C1
- O Building "O"—F4
- OF CAM—(Off Campus—call department)
- OV Delmar T. Oviatt Library—D4
- PAC Performing Arts Center—F4
- PK Parking, Public Safety—G7
- PPM Physical Plant Mgmt./Corp. Yard—C6
- RH Recital Hall—D1
- S Building "S"—F4
- SA Satellite Student Union—G9
- SB Student Services Building—C4

Building Name—Grid Location

- SC 1 Science Building 1—E3
- SC 2 Science Building 2—E3
- SC 3 Science Building 3—E3
- SC 4 Science Building 4—E4
- SG Sagebrush Hall—E5
- SH Sierra Hall—C3
- SI Sierra Center—C3
- SQ Sequoia Hall—E4
- ST Sierra Tower—C3
- STU Studio Theatre—C1
- T Building "T"—F4
- UC University Club—F1
- UN University Hall—B4
- UP University Park Apartments—F-G, 8-9
- USU University Student Union—F4
- UV University Village Apartments—G11
- WC Women's Center Building—B5

University Information (818) 677-1200
University Public Safety 677-2111
www.csun.edu



SOURCE: Randal Scot Thomson – April 2005

FIGURE 1

Project Site Map

DISCRETIONARY ACTIONS/ENTITLEMENTS

Project implementation would require approval from several entities. The Trustees of California State University are responsible for approval and adoption of the Envision 2035 Master Plan and certification of the EIR. State Fire Marshall review of the Master Plan is required for fire and life safety. Additional analysis may include a Water Supply Assessment (WSA), consistent with Senate Bill 610, if deemed necessary.

POTENTIAL ENVIRONMENTAL EFFECTS OF THE PROJECT

Based on preliminary review of the Envision 2035 Master Plan, consistent with Section 15060 of the California Environmental Quality Act (CEQA) *Guidelines*, the CSU has determined that an EIR should be prepared to analyze the potential environmental effects of the proposed project. Based on this preliminary review, the CSU proposes research, analysis, and study of the following environmental topics in this EIR:

- Aesthetics
- Air Quality
- Hazards & Hazardous Materials
- Noise
- Recreation
- Population & Housing
- Transportation/Traffic
- Utilities & Services Systems

The CSU has also determined that there is not a likelihood of potentially significant effects related to the following environmental topics. The Trustees propose that the EIR indicate the reasons why these effects were determined not to be significant and are therefore not addressed in detail in the EIR:

- Agricultural Resources
- Biological Resources
- Cultural Resources
- Geology & Soils
- Land Use/Planning
- Mineral Resources
- Public Services

The Trustees of the CSU will consider the comments received in response to this Notice of Preparation in determining the scope and content of the EIR for this project. Any comments provided should identify specific topics of environmental concern and the reason for suggesting their evaluation in the EIR.

This Notice of Preparation is intended as preliminary scoping of possible significant environmental effects for purposes of soliciting agency and public input, and is not a determination of the significance of the project's effects on environmental resources.

Please provide your comments in writing to:

California State University, Northridge

18111 Nordhoff Street

Northridge, California 91330-8219

Attention: Colin Donahue, Director, Facilities Planning, Design & Construction

Thank you for your participation in the environmental review process for the Envision 2035 Master Plan Project.

Subject: FW: (Fwd) Re: Envision 2035 Proposed Campus Restricted Roadway
Date: Monday, October 24, 2005 5:17 PM
From: Anne Doehne <adoehne@impactsciences.com>

On 7 Apr 2005 at 9:32, Patricia LoPresti wrote:

1. As the community reviews and digests the latest Envision 2035 proposed expansion of campus, elevated concern is being expressed regarding the purpose and planned use of the proposed "restricted campus roadway" which connects Plummer St. to Halsted St. immediately adjacent to the Arts Gallery. What is your definition of "restricted roadway"? As you know the residential community has been diligently coordinating efforts with Councilman Smith's office to reduce and eliminate CSUN vehicular traffic north of Halsted, Lindley, Etiwanda, Darby Ave.) There may not be a need for LACity to vacate and close Etiwanda St., if a parallel N/S road is constructed.

Repeated requests to CSUN to close existing Halsted St. parking lot driveways have been refused. Any type of roadway connecting CSUN traffic, temporary/occasional, to Halsted St. is of major concern to residents. University traffic needs to be contained, routed, directed to the south of Halsted St.

2. Another area of concern is adequate student housing parking at the present dorm apartments on Lindley at Lassen. The proposed University Park In fill (approximately 800 beds) will create considerable increases in traffic, noise, congestion and parking. Requiring dorm residents to park in the under utilized parking structure on Zelzah Ave may not be adequate or convenient. It is presently more convenient for student overflow parking to spill onto adjacent city streets which are in closer proximity to the dorms. Guest parking needs, including weekend quests, to be factored into your parking equations, Residential streets west of Lindley Ave. are currently experiencing high volumes of students and student guests Parking overnight and long term. Students say that the parking fees are too high and there are no guest parking spots. If students live on campus are they required to pay for one parking space? How much are the quest parking fees? Dormitory parking must be adequate, convenient and affordable. Please expand on these University Park parking > concerns for us.

Regards,
Pat LoPresti
81816 Labrador Street
Northridge, Ca. 91325
April 7, 2005

----- End of forwarded message -----

Colin Donahue
Director, Facilities Planning, Design and Construction
California State University, Northridge
PH: 818/677-2561 FAX: 818/677-6552

----- End of Forwarded Message



STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit

Arnold
Schwarzenegger
Governor

Sean Walsh
Director

Notice of Preparation

May 2, 2005

To: Reviewing Agencies

Re: Envision 2035 California State University, Northridge Master Plan
SCH# 2005051008

California State University, Northridge
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MAY 05 2005

**Facilities Planning,
Design & Construction**

Attached for your review and comment is the Notice of Preparation (NOP) for the Envision 2035 California State University, Northridge Master Plan draft Environmental Impact Report (EIR).

Responsible agencies must transmit their comments on the scope and content of the NOP, focusing on specific information related to their own statutory responsibility, within 30 days of receipt of the NOP from the Lead Agency. This is a courtesy notice provided by the State Clearinghouse with a reminder for you to comment in a timely manner. We encourage other agencies to also respond to this notice and express their concerns early in the environmental review process.

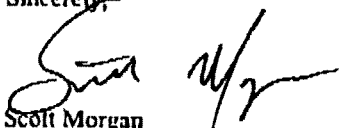
Please direct your comments to:

Colin Donahue
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330

with a copy to the State Clearinghouse in the Office of Planning and Research. Please refer to the SCH number noted above in all correspondence concerning this project.

If you have any questions about the environmental document review process, please call the State Clearinghouse at (916) 445-0613.

Sincerely,


Scott Morgan
Project Analyst, State Clearinghouse

Attachments
cc: Lead Agency

**Document Details Report
State Clearinghouse Data Base**

SCH# 2005051008
Project Title Envision 2035 California State University, Northridge Master Plan
Lead Agency California State University, Northridge

Type NOP Notice of Preparation
Description The lead agency and project applicant, California State University, Northridge, is seeking an amendment to its Campus Master Plan to accommodate future growth in compliance with California State University system requirements. In order to help meet the projected demand for higher education in California, the proposed Master Plan would permit the development of approximately 1.15 million gross sf of academic/administrative building area, 600 faculty housing units, 2500 new student dormitory bed spaces, a net increase of 4500 parking spaces, and increased instructional field spaces. The proposed Master Plan would increase the campus' maximum enrollment capacity from 25,000 full time equivalent students (FTES) to 35,000.

Lead Agency Contact

Name Colin Donahue
Agency California State University, Northridge
Phone (818) 677-2561 **Fax**
email
Address 18111 Nordhoff Street
City Northridge **State** CA **Zip** 91330

Project Location

County Los Angeles
City
Region
Cross Streets Devonshire, Darby, Lindley, Zelzah
Parcel No.
Township **Range** **Section** **Base**

Proximity to:

Highways 118
Airports
Railways
Waterways Wilbur Creek, Bull Creek, Aliso Canyon
Schools Granada Hills HS, New Valley HS No. 1
Land Use The project site is currently developed with a variety of university buildings (classrooms, administrative offices, library, etc.) and support facilities (parking facilities, maintenance facilities etc.). The City of Los Angeles Northridge Community Plan designates the site as: "Public Facilities."

Project Issues Aesthetic/Visual; Air Quality; Noise; Population/Housing Balance; Recreation/Parks; Toxic/Hazardous; Traffic/Circulation

Reviewing Agencies Resources Agency; Regional Water Quality Control Board, Region 4; Department of Parks and Recreation; Native American Heritage Commission; Department of Health Services; Department of Fish and Game, Region 5; Department of Water Resources; California Highway Patrol; Caltrans, District 7; Department of Toxic Substances Control

Date Received 05/02/2005 **Start of Review** 05/02/2005 **End of Review** 05/31/2005

JOP Distribution List

22

County: Los Angeles

SCH# 2005051008

Resources Agency

Resources Agency
Nadell Gayou

Dept. of Boating & Waterways
David Johnson

California Coastal
Commission
Elizabeth A. Fuchs

Colorado River Board
Gerald R. Zimmerman

Dept. of Conservation
Roseanne Taylor

California Energy
Commission
Environmental Office

Dept. of Forestry & Fire
Protection
Allen Robertson

Office of Historic
Preservation
Wayne Donaldson

Dept. of Parks & Recreation
B. Noah Tilghman
Environmental Stewardship
Section

Reclamation Board
DeeDee Jones

Santa Monica Mountains
Conservancy
Paul Edelman

S.F. Bay Conservation &
Dev'l. Comm.
Steve McAdam

Dept. of Water Resources
Resources Agency
Nadell Gayou

Sh and Game

Dept. of Fish & Game
Scott Flint
Environmental Services Division

Fish & Game Region 1
Donald Koch

Fish & Game Region 2
Barbky Curtis

Fish & Game Region 3
Robert Riercke

Fish & Game Region 4
William Laudmanlik

Fish & Game Region 5
Don Chadwick
Habitat Conservation Program

Fish & Game Region 6
Gabriela Gelfand
Habitat Conservation Program

Fish & Game Region 6 IM
Terry Allen
Inyo/Mono, Habitat Conservation
Program

Dept. of Fish & Game M
George Isaac
Marine Region

Other Departments

Food & Agriculture
Steve Shafer
Dept. of Food and Agriculture

Dept. of General Services
Public School Construction
Dept. of General Services
Robert Steppy
Environmental Services Section

Dept. of Health Services
Veronica Rameritz
Dept. of Health/Drinking Water

Independent
Commissions, Boards

Coachella Valley Mountains
Conservancy

Delta Protection Commission
Debbie Eddy

Office of Emergency Services
Dennis Castrillo

Governor's Office of Planning
& Research
State Clearinghouse
Native American Heritage
Comm.
Debbie Treadway

Public Utilities Commission
Ken Lewis

San Gabriel & Lower LA Rivers
San Joaquin River
Conservancy

State Lands Commission
Jean Sahrlo

Tahoe Regional Planning
Agency (TRPA)
Cherry Jacques

Business, Trans & Housing

Caltrans - Division of
Aeronautics
Sandy Keenan

Caltrans - Planning
Tert Parovic
California Highway Patrol
John Olejnik
Office of Special Projects

Housing & Community
Development
Lisa Nichols
Housing Policy Division

Dept. of Transportation

Caltrans, District 1
Mike Egan

Caltrans, District 2
Don Anderson

Caltrans, District 3
Jeff Puterman

Caltrans, District 4
Tim Sable

Caltrans, District 5
David Murray

Caltrans, District 6
Mero Blumberg

Caltrans, District 7
Cheryl J. Powell

Caltrans, District 8
John Pagano

Caltrans, District 9
Gayle Rosander

Caltrans, District 10
Tom Durmes

Caltrans, District 11
Merlo Orso

Caltrans, District 12
Bob Joseph

Cal EPA

Air Resources Board
Airport Projects
Jim Lerner

Transportation Projects
Kurt Kerperns
Industrial Projects
Mike Tollestrup

California Integrated Waste
Management Board
Sue O'Leary

State Water Resources Control
Board
Jim Hockenberry
Division of Financial Assistance

State Water Resources Control
Board
Student Intern, 401 Water Quality
Certification Unit
Division of Water Quality

State Water Resources Control Board
Steven Herrera
Division of Water Rights

Dept. of Toxic Substances Control
CEQA Tracking Center
Department of Pesticide Regulation

Regional Water Quality Control
Board (RWQCB)

RWQCB 1
Caitleen Hudson
North Coast Region (1)

RWQCB 2
Environmental Document
Coordinator
San Francisco Bay Region (2)

RWQCB 3
Central Coast Region (3)

RWQCB 4
Jonathan Bishop
Los Angeles Region (4)

RWQCB 5S
Central Valley Region (5)

RWQCB 5F
Central Valley Region (5)
Fresno Branch Office

RWQCB 5R
Central Valley Region (5)
Redding Branch Office

RWQCB 6
Lahontan Region (6)

RWQCB 6V
Lahontan Region (6)
Victorville Branch Office

RWQCB 7
Colorado River Basin Region (7)

RWQCB 8
Santa Ana Region (8)

RWQCB 9
San Diego Region (9)

Other

**Metro**

Metropolitan Transportation Authority

One Gateway Plaza
Los Angeles, CA 90012-2952213.922.2000 Tel
metro.net

May 3, 2005

Mr. Colin Donahue
Director, FPDC
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330

Dear Mr. Donahue:

Thank you for the opportunity to comment on the Notice of Preparation (NOP) for the Envision 2035, California State University, Northridge Master Plan. This letter conveys recommendations from the Los Angeles County Metropolitan Transportation Authority (LACMTA) concerning issues that are germane to our agency's statutory responsibilities in relation to the proposed project.

A Traffic Impact Analysis (TIA), with both highway and freeway, and transit components, is required under the State of California Congestion Management Program (CMP) statute. The CMP TIA Guidelines are published in the "2002 Congestion Management Program for Los Angeles County", Appendix D. The geographic area examined in the TIA must include the following, at a minimum:

1. All CMP arterial monitoring intersections, including monitored freeway on/off-ramp intersections, where the proposed project will add 50 or more trips during either the a.m. or p.m. weekday peak hour (of adjacent street traffic); and
2. Mainline freeway-monitoring locations where the project will add 150 or more trips, in either direction, during either the a.m. or p.m. weekday peak hour.

Among the required steps for the analysis of development-related impacts to transit are:

1. Evidence that, in addition to Metro, all affected municipal transit operators received the NOP for the Draft EIR;
2. A summary of the existing transit services in the area;
3. Estimated project trip generation and mode assignment for both morning and evening peak periods;
4. Documentation on the assumptions/analyses used to determine the number of percentage of trips assigned to transit;

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5. Information on facilities and/or programs that will be incorporated in to the development plan that will encourage public transit usage and transportation demand management (TDM) policies and programs; and
6. An analysis of the expected project impacts on current and future transit services along with proposed project mitigation.

The MTA looks forward to reviewing the Draft EIR. If you have any questions regarding this response, please call me at 213-922-6908 or email at chapmans@metro.net. Please send the Draft EIR to the following address:

LACMTA
One Gateway Plaza
Attn: Susan Chapman
Long Range Planning, 99-23-2
Los Angeles, CA 90012-2952

Sincerely,



Susan Chapman
Program Manager, Long Range Planning

DEPARTMENT OF TRANSPORTATION
DISTRICT 7, REGIONAL PLANNING
IGR/CEQA BRANCH
100 MAIN STREET, MS # 16
LOS ANGELES, CA 90012-3606
PHONE: (213) 897-3747
FAX: (213) 897-1337



*Flex your power!
Be energy efficient!*

IGR/CEQA No. 050515AL, NOP
Envision 2035, California State University,
Northridge Master Plan
Vic. LA-101, 118, 405 California State University, Northridge
SCH#: 2005051008

RECEIVED

MAY 10 2005

**Facilities Planning,
Design & Construction**

May 9, 2005

Mr. Colin Donahue, Director, FPDC
Trustees of the California State University
18111 Nordhoff Street
Northridge, CA 91330-8219

Dear Mr. Donahue

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The proposed project is to improve campus open space and landscaping; academic core facilities; housing; traffic and parking; and student services.

To assist us in our efforts to evaluate the impacts of this project on State transportation facilities, a traffic study in advance of the DEIR should be prepared. We wish to refer the project's traffic consultant to our traffic study guideline Website:

<http://www.dot.ca.gov/hq/traffops/developserv/operationalsystems/reports/tisguide.pdf>

and we list here some elements of what we generally are expecting in the traffic study:

1. Presentations of assumptions and methods used to develop trip generation, trip distribution, choice of travel mode, and assignments of trips to State Route 405, 101, and 118.
2. Consistency of project travel modeling with other regional and local modeling forecasts and with travel data. The IGR/CEQA office may use indices to check results. Differences or inconsistencies must be thoroughly explained.
3. Analysis of ADT, AM and PM peak-hour volumes for both the existing and future conditions in the affected area. This should include freeways, interchanges, and intersections, and all HOV facilities. Interchange Level of Service should be specified

(HCM2000 method requested). Utilization of transit lines and vehicles, and of all facilities, should be realistically estimated. Future conditions would include build-out of all projects (see next item) and any plan-horizon years.

4. Inclusion of all appropriate traffic volumes. Analysis should include traffic from the project, cumulative traffic generated from all specific approved developments in the area, and traffic growth other than from the project and developments. That is, include: existing + project + other projects + other growth.
5. Discussion of mitigation measures appropriate to alleviate anticipated traffic impacts. These mitigation discussions should include, but not be limited to, the following:
 - Description of Transportation Infrastructure Improvements
 - **Financial Costs, Funding Sources and Financing**
 - Sequence and Scheduling Considerations
 - Implementation Responsibilities, Controls, and Monitoring

Any mitigation involving transit, HOV, or TDM must be rigorously justified and its effects conservatively estimated. Improvements involving dedication of land or physical construction may be favorably considered.

6. Specification of developer's percent share of the cost, as well as a plan of realistic mitigation measures under the control of the developer. The following ratio should be estimated: additional traffic volume due to project implementation is divided by the total increase in the traffic volume (see Appendix "B" of the Guidelines). That ratio would be the project equitable share responsibility.

We note for purposes of determining project share of costs, the number of trips from the project on each traveling segment or element is estimated in the context of forecasted traffic volumes which include build-out of all approved and not yet approved projects, and other sources of growth. Analytical methods such as select-zone travel forecast modeling might be used.

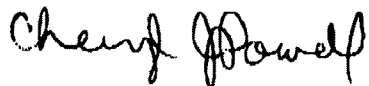
The Department as commenting agency under CEQA has jurisdiction superceding that of MTA in identifying the freeway analysis needed for this project. Caltrans is responsible for obtaining measures that will off-set project vehicle trip generation that worsens Caltrans facilities and hence, it does not adhere to the CMP guide of 150 or more vehicle trips added before freeway analysis is needed. MTA's Congestion Management Program in acknowledging the Department's role, stipulates that Caltrans must be consulted to identify specific locations to be analyzed on the State Highway System. Therefore State Route(s) mentioned in item #1 and its facilities must be analyzed per the Department's Traffic Impact Study Guidelines.

We look forward to reviewing the traffic study. We expect to receive a copy from the State Clearinghouse when the DEIR is completed. However, to expedite the review process, and clarify any misunderstandings, you may send a copy in advance to the undersigned.

"Caltrans improves mobility across California"

If you have any questions, please feel free to contact me at (213) 897-3747 or Alan Lin the project coordinator at (213) 897-8391 and refer to IGR/CEQA No. 050515.

Sincerely,



CHERYL J. POWELL
IGR/CEQA Branch Chief

cc: Scott Morgan, State Clearinghouse



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4182
(909) 396-2000 • www.aqmd.gov

May 10, 2005

Mr. Colin Donahue
Trustees of the California State University
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330-8219

Dear Mr. Donahue:

Notice of Preparation of a Draft Environmental Impact Report for Envision 2035, California State University, Northridge Master Plan

The South Coast Air Quality Management District (SCAQMD) appreciates the opportunity to comment on the above-mentioned document. The SCAQMD's comments are recommendations regarding the analysis of potential air quality impacts from the proposed project that should be included in the Draft Environmental Impact Report (EIR). Please send the SCAQMD a copy of the Draft EIR upon its completion.

Air Quality Analysis

The SCAQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. The SCAQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from the SCAQMD's Subscription Services Department by calling (909) 396-3720. Alternatively, lead agency may wish to consider using the California Air Resources Board (CARB) approved URBEMIS 2002 Model. This model is available on the CARB Website at: www.arb.ca.gov.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the project and all air pollutant sources related to the project. Air quality impacts from both construction and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air

Mr. Colin Donahue

-2-

May 10, 2005

quality impacts from indirect sources, that is, sources that generate or attract vehicular trips should be included in the analysis. It is recommended that lead agencies for projects generating or attracting vehicular trips, especially heavy-duty diesel-fueled vehicles, perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis") can be found on the SCAQMD's CEQA webpages at the following internet address: http://www.aqmd.gov/ceqa/handbook/mobile_toxic/diesel_analysis.doc. An analysis of all toxic air contaminant impacts due to the decommissioning or use of equipment potentially generating such air pollutants should also be included.

Mitigation Measures

In the event that the project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize or eliminate significant adverse air quality impacts. To assist the Lead Agency with identifying possible mitigation measures for the project, please refer to Chapter 11 of the SCAQMD CEQA Air Quality Handbook for sample air quality mitigation measures. Additionally, SCAQMD's Rule 403 - Fugitive Dust, and the Implementation Handbook contain numerous measures for controlling construction-related emissions that should be considered for use as CEQA mitigation if not otherwise required. Pursuant to state CEQA Guidelines §15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed.

Data Sources

SCAQMD rules and relevant air quality reports and data are available by calling the SCAQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available via the SCAQMD's World Wide Web Homepage (<http://www.aqmd.gov>).

The SCAQMD is willing to work with the Lead Agency to ensure that project-related emissions are accurately identified, categorized, and evaluated. Please call Charles Blankson, Ph.D., Air Quality Specialist, CEQA Section, at (909) 396-3304 if you have any questions regarding this letter.

Sincerely,



Steve Smith, Ph.D.
Program Supervisor, CEQA Section
Planning, Rule Development and Area Sources

SS:CB:li

LAC050504-06LI
Control Number

Subject: FW: (Fwd) Re: Fwd: Proposed Envision 2035 Traffic Concerns

Date: Monday, October 24, 2005 5:20 PM

From: Anne Doehne <adoehne@impactsciences.com>

On 11 May 2005 at 16:52, Robert Galletly wrote:

> Hi Colin,

>

> I have not heard from you regarding the issues below. Please send me any
> information you have.

>

> Regards,

>

> Bob Galletly

>

> Begin forwarded message:

>

>> From: Robert Galletly <rgalletly@socal.rr.com> Date: Tue Apr 12, 2005
>> 5:00:31 PM US/Pacific To: colin.donahue@csun.edu Cc: patlo86@earthlink.net,
>> rwbob@sbcbglobal.net Subject: Proposed Envision 2035 Traffic Concerns

>>

>> Colin,

>>

>> Neighbors here at Northridge Townhome Estates and others in the vicinity of
>> the CSUN campus have raised issues regarding proposed traffic flow in the
>> Envisions 2035 plan. These issues concern traffic on Halsted St. and Lindley
>> Ave. The main issues are, but not limited to:

>>

>> 1. Have the Notice(s) of Preparation (NOP) been sent out for proposed
>> driveways and/or ingress or egress paths on the above mentioned
>> streets? If so, to whom have they been sent?

>>

>> 2. Has a traffic study been planned for the above mentioned streets? If
>> so, when are these studies expected to be completed?

>>

>> If you have information on these or related topics please forward them to me
>> so I may disseminate the information to our neighborhood.

>>

>> Thank you for your cooperation.

>>

>> Regards,

>>

>> Robert D. Galletly 18165 Andrea Cir. N. #1 Northridge, CA 91325 (818) 885-
>> 1920

>>

----- End of forwarded message -----

Colin Donahue Director, Facilities

Planning, Design and Construction California State University, Northridge

PH: 818/677-2561 FAX: 818/677-6552

California State University
Northridge

ENVISION 2035 MASTER PLAN
ENVIRONMENTAL REVIEW
COMMENTS FORM

This form is provided for your convenience to make written comments regarding potential environmental impacts that you believe may result from the proposed project. Your comments will be considered by California State University, Northridge in determining the issues to be addressed in the Environmental Impact Report (EIR) that will be prepared for the project. You may use this form in addition to, or instead of, making oral comments at this public meeting. Please provide your comments on this form to University officials prior to leaving this meeting. This form also may be folded and returned by mail after the meeting, if desired.

Please write any comments below:

First, the EIR must consider the large question whether expanding this campus to approximately 42,000 students (35,000 FTE) is even feasible given the size of the campus and its geographical location. I do not believe the Envision 2035 project committee has seriously considered this point. Second, the EIR must also adequately deal with parking and traffic congestion issues, especially in the residential area south of Nordhoff. Again, the Envision 2035 team has not solved these problems. Third, the EIR must deal with the issue of a clear safety hazard caused by increased use of palm trees in a high wind area. Again — ignored by the Envision 2035 team. Fourth, the EIR must deal with the elimination of all remaining large open space areas in and around the central campus core. We have only pockets and small quads left, plus Sierra Quad, following the "filling up" of the Music Lawn with a huge PAC, and filling up of the large open areas on the east side of West University Drive — which will itself become a canyon between parking structures and academic bldgs (indeed, a huge wind tunnel). Finally, in light of this campus' historic disdain for credible EIR's (was one done for the new high school?) this one had better be thorough, inclusive, definitive, and credible — not an administrative brush-off.

Name: Prof. James E. Sefton

Address: 8957 Nestle Ave.

Northridge, CA 91325

Please attach additional sheets if necessary

ENVISION 2035 MASTER PLAN
ENVIRONMENTAL REVIEW
COMMENTS FORM

This form is provided for your convenience to make written comments regarding potential environmental impacts that you believe may result from the proposed project. Your comments will be considered by California State University, Northridge in determining the issues to be addressed in the Environmental Impact Report (EIR) that will be prepared for the project. You may use this form in addition to, or instead of, making oral comments at this public meeting. Please provide your comments on this form to University officials prior to leaving this meeting. This form also may be folded and returned by mail after the meeting, if desired.

Please write any comments below:

As a longtime member of the campus community and an ISA Certified Arborist, I have seen several instances on the CSUN campus where little or no effort was made to protect existing trees during construction. I implore CSUN to hire an independent Registered Consulting Arborist (as designated by the American Society of Consulting Arborists) to evaluate ~~to~~ existing trees on campus, identify significant trees which should be preserved and, most crucially, to recommend sufficient measures to protect trees from ^{potential} construction damage and to monitor construction sites periodically to see that ~~these~~ recommendations are being followed.

I am also particularly concerned about the proposed academic building planned within the current space of the CSUN Botanic Garden. The Garden is increasingly considered a special and significant asset to the Northridge community and extreme caution must be exercised to protect & preserve those trees and other plants (not slated for removal) during the construction process.

Name: Cynthia Cohen
Address: 18239 Septo St.
Northridge CA 91325

Envision 2035 includes many compelling plans for enhancing the campus landscape, and I applaud most of these plans, especially the use of drought-tolerant plants.

Please attach additional sheets if necessary

Yet CSUN must carefully consider the benefits already provided by mature trees on campus, and planners should be made aware that the existing campus trees are very important to the campus community.

THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA
Environmental Planning
700 North Alameda
3rd Floor
Los Angeles, California 90012
Phone 213-217-6337; Fax 213-217-5620

FACSIMILE TRANSMITTAL COVER SHEET

DATE: 5-26-05

TO: Colin Donahue

FAX NO: 818-677-6552

FROM: Lilia Martinez

COMMENTS: Please accept Metropolitan's comments
on the NOP-DEIR for Envision 2035, CSUN
Master Plan to meet the Public Comment
Period.

Thank you.

TOTAL NUMBER OF PAGES TRANSMITTED INCLUDING COVER SHEET: 3

Note: If you do not receive all the pages, please call 213-217-6337 5656



MWD
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Executive Office

May 26, 2005

Mr. Colin Donahue
Trustees of the California State University
California State University, Northridge
18111 Nordhoff Street
Northridge, California 91330-8219

Dear Mr. Donahue:

Notice of Preparation of a Draft Environmental Impact Report for
Envision 2035, California State University Northridge Master Plan

The Metropolitan Water District of Southern California (Metropolitan) has received a copy of the Notice of Preparation (NOP) of a Draft Environmental Impact Report (Draft EIR) for the Envision 2035, California State University Northridge (CSUN) Master Plan (Master Plan). Envision 2035 is a 30-year master plan for the CSUN campus to accommodate future growth in compliance with California State University system requirements, through a proposed program of improvements to campus open space and landscaping; academic core facilities; housing; traffic and parking; and student services. The Master Plan would permit the development of approximately 1.15 million gross square feet of additional building area to accommodate up to 10,000 additional Full-Time Equivalent (FTE) students. CSUN currently has a maximum enrollment capacity of 25,000 FTEs; the Master Plan would increase that capacity to 35,000 FTEs in order to help meet projected demand for higher education in California. CSUN is located at 18111 Nordhoff Street, in the community of Northridge, Los Angeles County, California.

Metropolitan staff has reviewed the Draft EIR and provides the following comment. Page 8 of the NOP, states that additional water analysis may include a Water Supply Assessment (WSA), consistent with Senate Bill 610. CSUN should consult their local water purveyor regarding a WSA analysis, since this Master Plan is for the next 30 years; there is the potential that water supply issues will need to be addressed in the Draft EIR.

Additionally, Metropolitan encourages projects within its service area to include water conservation measures. Water conservation, reclaimed water use, and groundwater recharge programs are integral components to regional water supply planning. Metropolitan supports mitigation measures, such as using water efficient fixtures, drought-tolerant landscaping, and reclaimed water, to offset any increase in water use associated with the Plan.

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

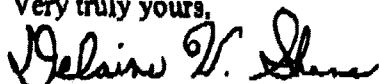
Mr. Colin Donahue

Page 2

May 26, 2005

We appreciate the opportunity to provide input to your planning process and we look forward to receiving a copy of the Draft EIR. If we can be of further assistance, please contact Mr. William Fong at (213) 217-6899.

Very truly yours,



(for) Laura J. Simonek

Manager, Environmental Planning Team

LIM/rdl

(Public Folders/EPU/Letters/25-MAY-05A.doc - Colin Donahue)

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Executive Office

California State University, Northridge
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JUN 21 2005
Facilities Planning
Design & Construction

May 26, 2005

Mr. Colin Donahue
Trustees of the California State University
California State University, Northridge
18111 Nordhoff Street
Northridge, California 91330-8219

Dear Mr. Donahue:

Notice of Preparation of a Draft Environmental Impact Report for
Envision 2035, California State University Northridge Master Plan

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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

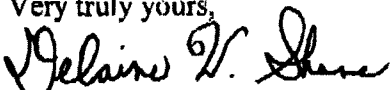
Mr. Colin Donahue

Page 2

May 26, 2005

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Very truly yours,



(for)

Laura J. Simonek

Manager, Environmental Planning Team

LIM/rdl

(Public Folders/EPU/letters/25-MAY-05A.doc - Colin Donahue)

FROM :SCOTT HARRIS DFG

FAX NO. :626 797 3170

May. 31 2005 12:45PM P1

ARNOLD SCHWARZENEGGER, Governor

State of California - The Resources Agency



DEPARTMENT OF FISH AND GAME

South Coast Region 5
1508 North Harding Avenue
Pasadena, CA 91104
(626) 797-3170



Number of Pages including Cover : 5

To: Colin Donahue

Fax: _____

From: Scott Harris, Habitat Conservation and Planning Division

Message: Notice of Preparation for Emission 2035 CSUN Campus
Comments

Please pay particular attention to protection
of native birds on page 2 under comment 2 (f) if
Master plan will require removing/disturbing landscaping on campus

FROM : SCOTT HARRIS DFG

FAX NO. : 626 797 3170

May. 31 2005 12:46PM P4

State of California - The Resources Agency

ARNOLD SCHWARZENEGGER, Governor

**DEPARTMENT OF FISH AND GAME**

<http://www.dfg.ca.gov>
4949 Viewridge Avenue
San Diego, CA 92123
(858) 467-4201



May 31, 2005

Mr. Colin Donahue
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330

**Notice of Preparation for an Environmental Impact Report for
California State University, Northridge Draft Master Plan
SCH # 2005051008, Los Angeles County**

Dear Mr. Donahue:

The Department of Fish and Game (Department) appreciates this opportunity to comment on the above-referenced project, relative to impacts to biological resources. The proposed project involves the adoption of a proposed master plan to allow expansion of the Northridge campus through the year 2035. The campus is located in Northridge in the San Fernando Valley and is bordered by Devonshire, Derby, Lindley, and Zelzah Avenues.

To enable Department staff to adequately review and comment on the proposed project we recommend the following information, where applicable, be included in the Draft Environmental Impact Report:

1. A complete, recent assessment of flora and fauna within and adjacent to the project area, with particular emphasis upon identifying endangered, threatened, and locally unique species and sensitive habitats.
 - a. A thorough recent assessment of rare plants and rare natural communities, following the Department's Guidelines for Assessing Impacts to Rare Plants and Rare Natural Communities.
 - b. A complete, recent assessment of sensitive fish, wildlife, reptile, and amphibian species. Seasonal variations in use of the project area should also be addressed. Recent, focused, species-specific surveys, conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with the Department and U.S. Fish and Wildlife Service.
 - c. Rare, threatened, and endangered species to be addressed should include all those which meet the California Environmental Quality Act (CEQA) definition (see CEQA Guidelines, Section 15380).
 - d. The Department's California Natural Diversity Data Base in Sacramento should be contacted at (916) 322-2493 to obtain current information on any previously reported

FROM : SCOTT HARRIS DFG

FAX NO. : 626 797 3170

May. 31 2005 12:45PM P2

Mr. Colin Donahue

May 31, 2005

Page 2

sensitive species and habitats, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code. Also, any Significant Ecological Areas (SEAs) or Environmentally Sensitive Habitats (ESHs) or any areas that are considered sensitive by the local jurisdiction that are located in or adjacent to the project area must be addressed.

2. A thorough discussion of direct, indirect, and cumulative impacts expected to adversely affect biological resources, with specific measures to offset such impacts. This discussion should focus on maximizing avoidance, and minimizing impacts.
 - a. CEQA Guidelines, Section 15125(a), direct that knowledge of the regional setting is critical to an assessment of environmental impacts and that special emphasis should be placed on resources that are rare or unique to the region.
 - b. Project impacts should also be analyzed relative to their effects on off-site habitats and populations. Specifically, this should include nearby public lands, open space, adjacent natural habitats, and riparian ecosystems. Impacts to and maintenance of wildlife corridor/movement areas, including access to undisturbed habitat in adjacent areas, should be fully evaluated and provided. The analysis should also include a discussion of the potential for impacts resulting from such effects as increased vehicle traffic and outdoor artificial lighting.
 - c. A cumulative effects analysis should be developed as described under CEQA Guidelines, Section 15130. General and specific plans, as well as past, present, and anticipated future projects, should be analyzed relative to their impacts on similar plant communities and wildlife habitats.
 - d. Impacts to migratory wildlife affected by the project should be fully evaluated. This can include such elements as migratory butterfly roost sites and neo-tropical bird and waterfowl stop-over and staging sites. All migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act (MBTA) of 1918 (50 C.F.R. Section 10.13). Sections 3503, 3503.5 and 3513 of the California Fish and Game Code prohibit take of birds and their active nests, including raptors and other migratory nongame birds as listed under the MBTA.
 - e. Impacts to all habitats from City or County required Fuel Modification Zones (FMZ). Areas slated as mitigation for loss of habitat shall not occur within the FMZ.
 - f. Proposed project activities (including disturbances to native and non native vegetation) should take place outside of the breeding bird season (February 1-September 15) to avoid take (including disturbances which would cause abandonment of active nests containing eggs and/or young). If project activities cannot avoid the breeding bird season, nest surveys should be conducted and active nests should be avoided and provided with a minimum buffer as determined by a biological monitor (the Department recommends a minimum 500-foot buffer for all active raptor nests).
3. A range of alternatives should be analyzed to ensure that alternatives to the proposed project are fully considered and evaluated. A range of alternatives which avoid or otherwise minimize impacts to sensitive biological resources including wetlands/riparian habitats, alluvial scrub, coastal sage scrub, native woodlands, etc. should be included. Specific alternative locations should also be evaluated in areas with lower resource sensitivity where appropriate.

FROM : SCOTT HARRIS DFG

FAX NO. : 626 797 3170

May. 31 2005 12:45PM P3

Mr. Colin Donahue

May 31, 2005

Page 3

- a. Mitigation measures for project impacts to sensitive plants, animals, and habitats should emphasize evaluation and selection of alternatives which avoid or otherwise minimize project impacts. Compensation for unavoidable impacts through acquisition and protection of high quality habitat elsewhere should be addressed.
 - b. The Department considers Rare Natural Communities as threatened habitats having both regional and local significance. Thus, these communities should be fully avoided and otherwise protected from project-related impacts.
 - c. The Department generally does not support the use of relocation, salvage, and/or transplantation as mitigation for impacts to rare, threatened, or endangered species. Department studies have shown that these efforts are experimental in nature and largely unsuccessful.
4. A California Endangered Species Act (CESA) Permit must be obtained, if the project has the potential to result in "take" of species of plants or animals listed under CESA, either during construction or over the life of the project. CESA Permits are issued to conserve, protect, enhance, and restore State-listed threatened or endangered species and their habitats. Early consultation is encouraged, as significant modification to the proposed project and mitigation measures may be required in order to obtain a CESA Permit. Revisions to the Fish and Game Code, effective January 1998, require that the Department issue a separate CEQA document for the issuance of a CESA permit unless the project CEQA document addresses all project impacts to listed species and specifies a mitigation monitoring and reporting program that will meet the requirements of a CESA permit. For these reasons, the following information is requested:
- a. Biological mitigation monitoring and reporting proposals should be of sufficient detail and resolution to satisfy the requirements for a CESA Permit.
 - b. A Department-approved Mitigation Agreement and Mitigation Plan are required for plants listed as rare under the Native Plant Protection Act.
5. The Department opposes the elimination of watercourses and/or their channelization or conversion to subsurface drains. All wetlands and watercourses, whether intermittent, ephemeral, or perennial, must be retained and provided with substantial setbacks which preserve the riparian and aquatic habitat values and maintain their value to on-site and off-site wildlife populations.
- a. The Department requires a Streambed Alteration Agreement (SAA), pursuant to Section 1600 et seq. of the Fish and Game Code, with the applicant prior to any direct or indirect impact to a lake or stream bed, bank or channel or associated riparian resources. The Department's issuance of a SAA may be a project that is subject to CEQA. To facilitate our issuance of the Agreement when CEQA applies, the Department as a responsible agency under CEQA may consider the local jurisdiction's (lead agency) document for the project. To minimize additional requirements by the Department under CEQA the document should fully identify the potential impacts to the lake, stream or riparian resources and provide adequate avoidance, mitigation, monitoring and reporting commitments for issuance of the Agreement. Early consultation is recommended, since modification of the proposed project may be required to avoid or reduce impacts to fish and wildlife resources.

FROM : SCOTT HARRIS DFG

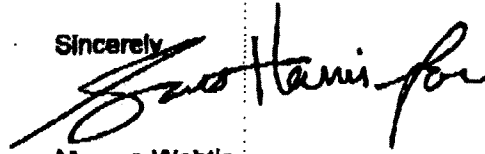
FAX NO. : 626 797 3170

May. 31 2005 12:46PM P5

Mr. Colin Donahue
May 31, 2005
Page 4

The Department suggests a pre-project or early consultation planning meeting for all projects. To make an appointment, please call Scott Harris, Wildlife Biologist, at (626) 797-3170. Thank you for this opportunity to provide comment.

Sincerely



Morgan Wehtje

cc: Mr. Scott Harris, Pasadena
Department of Fish & Game

Mr. Scott Morgan
State Clearinghouse

HCP-Chron
Department of Fish and Game

SPH:sph

California State University
Northridge

18111 Nordhoff Street
Northridge, CA 91330-8242

Envision 2035

**Open Forum on Campus Master Plan
and**

**Scoping Meeting for Draft
Environmental Impact Report**

Thursday, May 19, 2005

**Morning Session: 9 a.m. _ Noon
or**

Evening Session: 6 p.m. _ 9 p.m.

**Oviatt Library presentation room
on the Cal State Northridge campus**

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Northridge

Upcoming Public Meetings

You are invited to attend **either** of two upcoming public meetings on **Envision 2035**, the Cal State Northridge planning initiative. At each of these public meetings, the latest version of the draft campus Master Plan will be presented for public comment. The University also will hold a public scoping meeting during each session to identify environmental issues that should be addressed in the Draft Environmental Impact Report (EIR) that is being prepared on the new campus Master Plan.

Thursday, May 19, 2005

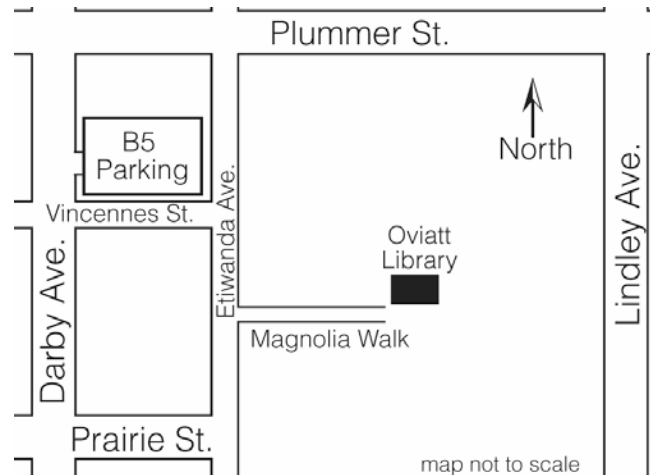
CSUN Oviatt Library lower level presentation room

Morning Session: 9 a.m. _ Noon

Evening Session: 6 p.m. _ 9 p.m.

Notice of Preparation (NOP) Available

An NOP informs government agencies and the public that an EIR is being prepared and allows them to identify environmental issues that require study. The University is posting the NOP for the Master Plan EIR on the Envision 2035 Web site as of May 2, 2005. Also, the NOP will be available for review at CSUN's Oviatt Library; the CSUN Facilities Planning Office in University Hall, Suite 325, and the L.A. County Public Library at 9051 Darby Ave. in Northridge. Public comments on the NOP can be submitted between May 5 and June 4, 2005.



IMPORTANT PARKING INFO: DISPLAY THIS CARD ON YOUR DASHBOARD AS A VALID CSUN PARKING PERMIT

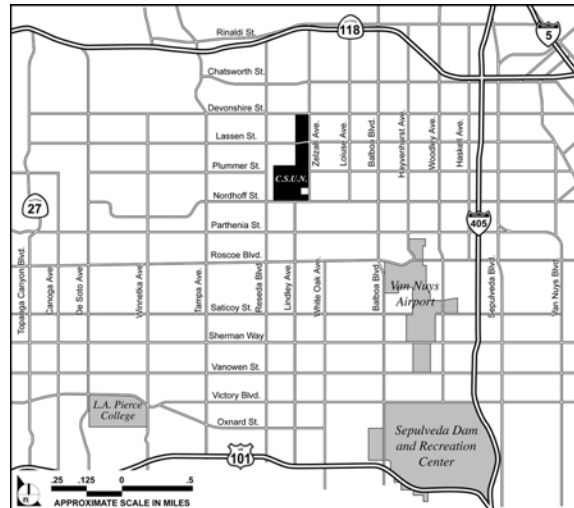
Park only in Parking Structure B5, entered off Darby Ave., north of Vincennes St. See the map above.

For additional info and to RSVP, contact Judy Nutter at (818) 677-2123 or by e-mail to judith.nutter@csun.edu.

CSUN's **Envision 2035** Web site can be reached via the University's home page at www.csun.edu.

PROJECT INFORMATION

ENVISION 2035 MASTER PLAN SCOPING MEETING FOR THE DRAFT EIR



The 356-acre California State University, Northridge campus is located in the City of Los Angeles community of Northridge. The campus is bounded by Devonshire Street on the north, Nordhoff Street on the south, Zelzah Avenue on the east, and Darby Avenue/Lindley Avenue on the west. Regional access is provided by the Ronald Reagan Freeway (CA 118), San Diego Freeway (I-405), and Ventura Freeway (US 101).

WHAT IS THE PURPOSE OF THIS MEETING?

The California State University system requires each campus to maintain a master plan guiding its development. California State University, Northridge (CSUN) has developed the Envision 2035 Master Plan during the course of a yearlong process that incorporated campus and community feedback. The Envision 2035 Master Plan is intended to accommodate future projected increases in student population and allow for existing academic programs and support services to modernize, improve and expand.

CSUN is now soliciting comments from public agencies and community residents concerning the potential environmental effects of the proposed project.

Comments made at today's meeting, or submitted in writing to the University, will be considered when determining the topics to be studied in the Environmental Impact Report (EIR) that the University will be preparing for this project.

Written comments can be made on the comment form provided. The comment form may be submitted during this scoping meeting or mailed to the University at the address listed on the form.

WHAT IS PROPOSED?

The Envision 2035 Master Plan is the first major revision of the CSUN Master Plan since 1998. It is designed to be implemented during a 30-year period within the existing campus boundaries.

The scope of the Master Plan includes:

- Accommodating students through campus growth and improvements in academic curricula, support services, housing opportunities, and parking facilities;
- Functional enhancements of physical facilities and features, including buildings, open space and recreational/athletic facilities, vehicular/bicycle/pedestrian circulation, and utility and technology upgrades; and

- Aesthetic enhancements including, but not limited to, landscaping, open space reconfiguration, design guidelines, campus perimeter enhancements, and environmental protection.

The proposed Master Plan focuses on five key components:

- Landscape and Open Space
- Academic Core
- Housing
- Parking & Transportation Management
- Student Services

The **Landscape and Open Space** component would preserve and enhance existing quads; frame courtyards and pedestrian pathways through careful siting of new buildings; increase shaded seating areas; preserve and revitalize the orange grove; reinforce campus identity through perimeter landscaping; and increase playfields by nearly five acres, to 45.6 acres.

The **Academic Core** component would develop 1.15 million gross square feet of new academic/administrative space; recommend potential sites for future facilities; ensure expansion potential for all academic programs; and provide for the strategic location of campus activity “hubs”. This expansion would increase CSUN’s enrollment capacity by 10,000 full-time equivalent students (FTEs), from 25,000 to 35,000.

The **Housing** component would increase housing availability and choices for students, faculty, and staff. For students, up to 2,500 new bed spaces are proposed. For faculty and staff, up to 600 new units are proposed on campus in a mix of housing accommodations, together with recreational amenities and supporting retail space.

Proposed **Parking and Transportation Management** features include a net increase of up to 5,500 parking spaces; balanced parking across the campus; an on-campus transit center; landscaped vehicular entries; a new Nordhoff Street campus entrance; reconfiguring pedestrian circulation; and a second campus tram route.

The **Student Services** component includes a recommended site for a new Student Recreation Center; a site for a new Student Health Center; and a new student dining center.

WHAT IS THE UNIVERSITY’S ROLE?

The Trustees of California State University will be asked to approve the proposed Envision 2035 Master Plan to guide development of the campus during the coming 30 years.

After completing a preliminary review, CSUN has determined that an EIR should be prepared to assess the potential environmental impacts of this project.

Based on this preliminary review, CSUN has identified the following topics for analysis in the EIR:

- Aesthetics
- Air Quality
- Hazards & Hazardous Materials
- Hydrology & Water Quality
- Noise
- Recreation
- Population & Housing
- Transportation/Traffic
- Utilities & Service Systems

As required by the California Environmental Quality Act, the EIR also will assess a reasonable range of alternatives to the proposed project.

WHEN WILL THE EIR BE AVAILABLE FOR REVIEW?

The Draft EIR is expected to be available for public review in Fall 2005. The Draft EIR will be circulated for a 45-day public review period. The public also will have opportunities to comment on the EIR and proposed project during a public meeting of the Board of Trustees of the California State University system.

WHO CAN I CONTACT FOR MORE INFORMATION?

If you have any comments or questions, please write to:

Colin Donahue, Director
 Facilities Planning, Design and Construction
 California State University, Northridge
 18111 Nordhoff Street
 Northridge, CA 91330-8219

Thank you for your participation in the University’s environmental review of this project.



**ENVISION 2035 MASTER PLAN
ENVIRONMENTAL REVIEW
COMMENTS FORM**

This form is provided for your convenience to make written comments regarding potential environmental impacts that you believe may result from the proposed project. Your comments will be considered by California State University, Northridge in determining the issues to be addressed in the Environmental Impact Report (EIR) that will be prepared for the project. You may use this form in addition to, or instead of, making oral comments at this public meeting. Please provide your comments on this form to University officials prior to leaving this meeting. This form also may be folded and returned by mail after the meeting, if desired.

Please write any comments below:

Name: _____

Address: _____

Please attach additional sheets if necessary

Fold Here

1st Class
Stamp

Envision 2035 EIR Scoping Comments
Facilities Planning, Design & Construction
California State University, Northridge
18111 Nordhoff Street
Northridge, California 91330-8219

Fold Here

MAY 19, 2005

ENVISION 2035
FORUM #4

30 ATTENDEES

1/1/11

NAME	ADDRESS	EMAIL ADDRESS	TELEPHONE
E.T. PECKHAM	1750 Parkview Dr. Northridge 91325	etpeckham@csun.edu	(818) 816-3300
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Lisa Anderson	-	vicki.pedra@csun.edu	x7075
Vicki Pedra	College Source of Materials CSUN	bill.fairchild@csun.edu	x2561
Bill Fairchild	16706 Gladhill Knolls	KGA12@aim.net	818-892-1404
Keri Cochran			

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Tina Gunn-Cummins Brue	CSUN		
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Tot Capresti	18136 Labrador	patlo80@earthlink.net	91300
Dorcas L. Hammond	CSUN - USU		2390

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MILWA DELA ROSA	ASSOCIATED STUDENT		
ED O'Brien	Pres. Office		
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Warren Campbell	Campus # 8362		#3477
LEON FENWICK	19666 HIAWATHA ST CHATSWORTH 91314		818 366 1315 (213)
LAUREL CARPICO	17050 CHATSWORTH ST GALLS 91344		366-9753
Francine Ruch	NORTHridge CAMPUS RESIDENCE 95002 1/24th Ave No. 91328		818 886-1717
Alycia Spencer	Alycia Spencer	Alycia.Spencer@csun.ca.gov	818 904 5540

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Jo Marshall Knight	7938 Ardenhol Ave Northridge 91325 12448 WALSH AVE LA CA 91006 COLLEEN FRENCH	djmkennan@cingular.net	818 310 3019286
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Noriko Haga	9846 KATHLEEN AVE. NORTHridge CA.	noriko.haga@csun.edu	
THOMAS BAKER	10001 Wish Ave KR CA	sueblu@yahoo.com	818 677-5111
Colleen French	5000 Van Ness Blvd. STE 420 Sherman Oaks 91403	colleen.french@csun.edu	818 501 9200
Michael Tou	9951 Colkin Ave Northridge CA 91324	michael.tou@mail.hawaii.gov	818 993-0654
Tiffany Seward	8727 ETIWAANDA AV. NORTHridge	Tiff0307@aol.com	
PAUL MASY			

MAY 19, 2005

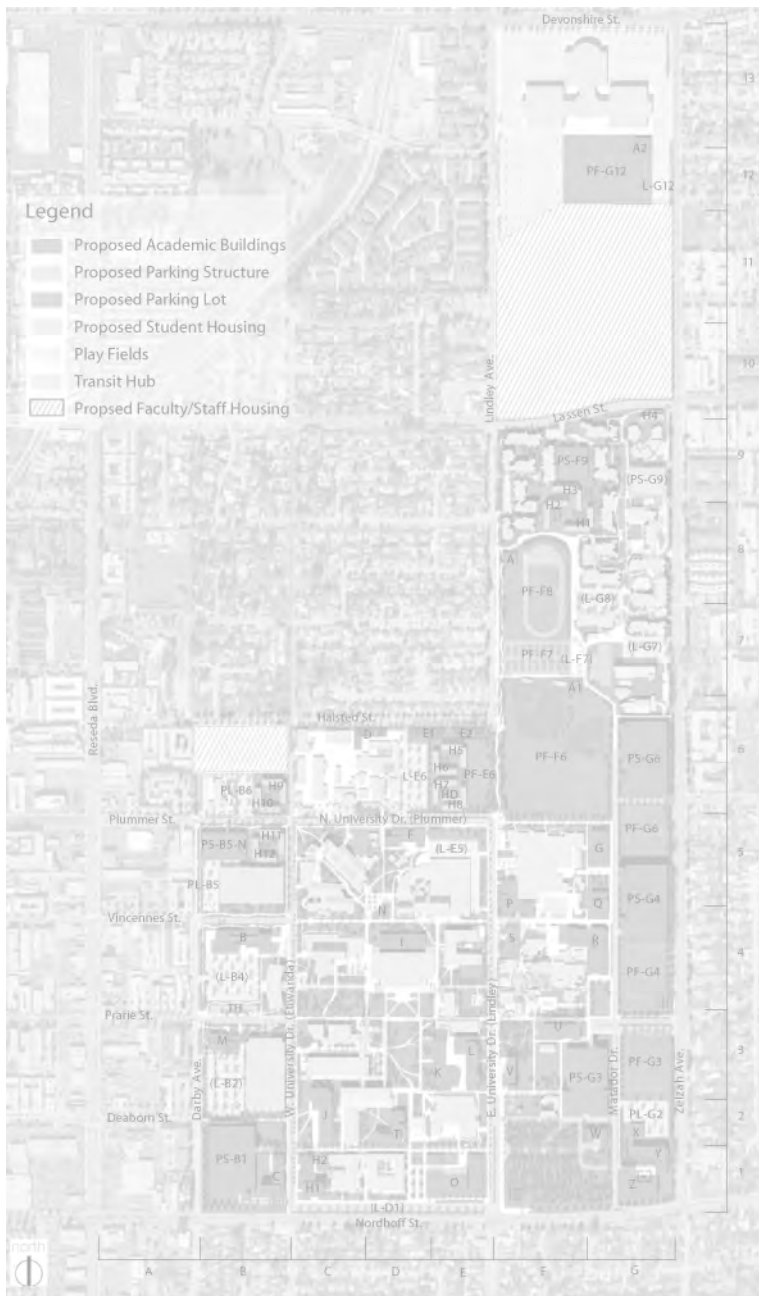
ENVISION 2035
FORUM #4

NAME	ADDRESS	EMAIL ADDRESS	TELEPHONE
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Wm Wheeling	9815 CANTON BLVD, N.W. 91325		
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ROBERT D. GALLELY	18165 ANDREA CIR. N. # / NORTH RIDGE 91325		
Sandy Henimogji	18540 Plummer St. Apt #330 Northridge	orange-werbee@yahoo.com	(916) 882-8254
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Peter B. Gallego	17950 Lassen St #174 Northridge CA 91325	peter.gallego-3@csun.edu	818-677-7895
Clyde Olsen [Signature]	37000 CLODEN OAK DR VALENCIA CA 91391	EAC95762@CSUN.EDU	661-442-4600
Rocio Lopez	18136 Lubrano St	---	---
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CHAD CHARTON	11205 Gayton Ave Granada Hills, CA 91344	CHAD.CHARTON@CSUN.EDU	818-258-5433
Lizeth Gray	9930 Garden Grove Nr 91325	---	---
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APPENDIX B AIR QUALITY TECHNICAL DATA 2005 MASTER PLAN UPDATE

California State University
Northridge



CSUN Master Plan

30-year build out plan

	Existing	by 2035	Total Increase	Phase 1 2005-09	Phase 2 2010-14	Phase 3 2015-19	Phase 4 2020-35
Student Growth (FTE)	24,473	35,000	10,527	957	3,331	995	5,244
Cumulative Student Pop.				25,430	28,761	29,756	35,000
Net Increase Student Pop.				957	4,288	5,283	10,527
Academic/Admin Facilities (SF)			1,462,980	133,000 9%	462,900 32%	138,300 9%	728,780 50%
Student Beds			2,688	252	504	140	1,792
Faculty Housing Units			532	250	150	50	82
Misc. Uses			455,050	167,000	144,000	119,050	25,000
Retail Space (SF)			43,000	3,909	13,606	4,065	21,420
Parking Spaces			11,165	1,994	3,378	2,769	3,024
SF to be Demolished			357,783	11,200	48,602	226,711	71,270

Student Growth is assumed to be proportional to square feet of Academic/Admin Facilities to be constructed.

CSUN Master Plan

	Phase 1 2005-09 (SF)	Pad Area (SF)	Units
Academic/Admin Facilities (SF)	133,000	51,260	
Student Beds	48,600	12,150	252
Faculty Housing Units	290,500	290,500	250
Misc. Uses	167,000	194,500	
Retail Space (SF)	3,909	3,909	
Parking Spaces	648,000	108,000	1,994
SF	1,291,009	660,319	
Acres	29.64	15.16	
SF to be Demolished		11,200	
acres		0.26	
Two years of construction (SF)	516,404	6.06	
Students for URBEMIS	5,613		
Grading area (ac)		9.10	
Asphalt area (ac)		0.91	
Two years of demolition (SF)		4,480	

CSUN Master Plan

	Phase 2 2010-14 (SF)	Pad Area (SF)	Units
Academic/Admin Facilities (SF)	462,900	136,300	
Student Beds	97,200	24,300	504
Faculty Housing Units	174,300	116,200	150
Misc. Uses	144,000	513,250	
Retail Space (SF)	13,606	13,606	
Parking Spaces	1,098,000	189,600	3,378
SF	1,990,006	993,256	
Acres	45.68	22.80	
SF to be Demolished		48,602	
acres		1.12	
Two years of construction (SF)	796,002	9.12	
Students for URBEMIS	8,652		
Grading area (ac)		13.68	
Asphalt area (ac)		1.37	
Two years of demolition (SF)		19,441	

CSUN Master Plan

	Phase 4 2020-35 (SF)	Pad Area (SF)	Units
Academic/Admin Facilities (SF)	728,780	234,360	
Student Beds	345,600	86,400	1,792
Faculty Housing Units	95,284	95,284	82
Misc. Uses	25,000	25,000	
Retail Space (SF)	21,420	21,420	
Parking Spaces	982,800	172,560	3,024
SF	2,198,884	635,024	
Acres	50.48	14.58	
SF to be Demolished		71,270	
acres		1.64	
Two years of construction (SF)	293,185	1.94	
Students for URBEMIS	3,187		
Grading area (ac)		2.92	
Asphalt area (ac)		0.29	
Two years of demolition (SF)		9,503	

CSUN Master Plan

	Phase 3 2015-19 (SF)	Pad Area (SF)	Units
Academic/Admin Facilities (SF)	138,300	90,300	
Student Beds	27,000	6,750	140
Faculty Housing Units	58,100	58,100	50
Misc. Uses	517,350	119,050	
Retail Space (SF)	4,065	4,065	
Parking Spaces	900,000	150,000	2,769
SF	1,644,815	428,265	
Acres	37.76	9.83	
SF to be Demolished		226,711	
acres		5.20	
Two years of construction (SF)	657,926	3.93	
Students for URBEMIS	7,151		
Grading area (ac)		5.90	
Asphalt area (ac)		0.59	
Two years of demolition (SF)		90,684	

**Phase 1 Construction
(2005-2009)**

Construction emissions were based on the following assumptions:

1. Start date: June 2006
2. Duration of construction: 24 months
3. Demolition: 4,480 square feet
4. Construction: 516,404 square feet
5. Grading: 9.10 acres (1.5 acres per acre of footprint area)
6. Asphalt Paving: 0.9 acres (10% of graded area)
7. Equivalent students: 5,613 (needed for URBEMIS2002 to generate proper area to be constructed)

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN construction.urb
Project Name: Phase 1 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 ***							
TOTALS (lbs/day, unmitigated)	71.20	543.67	525.12	0.06	47.26	24.55	22.71
TOTALS (lbs/day, mitigated)	71.20	543.67	525.12	0.06	35.91	24.55	11.36
*** 2007 ***							
TOTALS (lbs/day, unmitigated)	71.13	519.85	541.36	0.00	22.63	22.45	0.18
TOTALS (lbs/day, mitigated)	71.13	519.85	541.36	0.00	22.63	22.45	0.18
*** 2008 ***							
TOTALS (lbs/day, unmitigated)	217.40	520.54	602.35	0.00	21.45	21.09	0.36
TOTALS (lbs/day, mitigated)	217.40	520.54	602.35	0.00	21.45	21.09	0.36

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN construction.urb
Project Name: Phase 1 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 ***							
TOTALS (lbs/day, unmitigated)	71.20	543.67	525.12	0.06	47.26	24.55	22.71
TOTALS (lbs/day, mitigated)	71.20	543.67	525.12	0.06	35.91	24.55	11.36
*** 2007 ***							
TOTALS (lbs/day, unmitigated)	71.13	519.85	541.36	0.00	22.63	22.45	0.18
TOTALS (lbs/day, mitigated)	71.13	519.85	541.36	0.00	22.63	22.45	0.18
*** 2008 ***							
TOTALS (lbs/day, unmitigated)	217.40	520.54	602.35	0.00	21.45	21.09	0.36
TOTALS (lbs/day, mitigated)	217.40	520.54	602.35	0.00	21.45	21.09	0.36

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN construction.urb
 Project Name: Phase 1 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: June, 2006
 Construction Duration: 24
 Total Land Use Area to be Developed: 9.1 acres
 Maximum Acreage Disturbed Per Day: 2.27 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 516396

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	1.07	-	1.07
Off-Road Diesel	2.38	19.00	16.91	-	0.88	0.88	0.00
On-Road Diesel	0.18	3.28	0.67	0.06	0.09	0.08	0.01
Worker Trips	0.07	0.09	1.76	0.00	0.00	0.00	0.00
Maximum lbs/day	2.63	22.37	19.34	0.06	2.04	0.96	1.08
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	22.70	-	22.70
Off-Road Diesel	21.53	172.27	153.32	-	7.97	7.97	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.07	0.03	0.86	0.00	0.01	0.00	0.01
Maximum lbs/day	21.60	172.30	154.18	0.00	30.68	7.97	22.71
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	70.15	543.08	512.50	-	24.54	24.54	0.00
Bldg Const Worker Trips	1.05	0.60	12.62	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	71.20	543.67	525.12	0.00	24.73	24.55	0.18
Max lbs/day all phases	71.20	543.67	525.12	0.06	47.26	24.55	22.71
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	70.15	519.29	529.50	-	22.43	22.43	0.00
Bldg Const Worker Trips	0.98	0.56	11.86	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	71.13	519.85	541.36	0.00	22.63	22.45	0.18
Max lbs/day all phases	71.13	519.85	541.36	0.00	22.63	22.45	0.18

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	70.15	495.51	545.89	-	20.33	20.33	0.00
Bldg Const Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	141.30	-	-	-	-	-	-
Arch Coatings Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Asphalt Off-Gas	0.11	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.58	33.99	-	0.73	0.73	0.00
Asphalt On-Road Diesel	0.02	0.39	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.27	0.00	0.00	0.00	0.00
Maximum lbs/day	217.40	520.54	602.35	0.00	21.45	21.09	0.36
Max lbs/day all phases	217.40	520.54	602.35	0.00	21.45	21.09	0.36

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '06
Phase 1 Duration: 1.2 months
Building Volume Total (cubic feet): 67198.38936
Building Volume Daily (cubic feet): 2545.15014
On-Road Truck Travel (VMT): 141
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '06
Phase 2 Duration: 2.4 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
5	Rubber Tired Dozers	352	0.590	8.0
5	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06
Phase 3 Duration: 20.4 months
Start Month/Year for SubPhase Building: Sep '06
SubPhase Building Duration: 20.4 months
Off-Road Equipment
Start Month/Year for SubPhase Architectural Coatings: Apr '08
SubPhase Architectural Coatings Duration: 2 months
Start Month/Year for SubPhase Asphalt: May '08
SubPhase Asphalt Duration: 1 months
Acres to be Paved: .9

No.	Type	Horsepower	Load Factor	Hours/Day
12	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
12	Rough Terrain Forklifts	94	0.475	8.0
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	70.15	495.51	545.89	-	20.33	20.33	0.00
Bldg Const Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	141.30	-	-	-	-	-	-
Arch Coatings Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Asphalt Off-Gas	0.11	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.58	33.99	-	0.73	0.73	0.00
Asphalt On-Road Diesel	0.02	0.39	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.27	0.00	0.00	0.00	0.00
Maximum lbs/day	217.40	520.54	602.35	0.00	21.45	21.09	0.36
Max lbs/day all phases	217.40	520.54	602.35	0.00	21.45	21.09	0.36

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '06

Phase 1 Duration: 1.2 months

Building Volume Total (cubic feet): 67198.38936

Building Volume Daily (cubic feet): 2545.15014

On-Road Truck Travel (VMT): 141

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '06

Phase 2 Duration: 2.4 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
5	Rubber Tired Dozers	352	0.590	8.0
5	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 20.4 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
12	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
12	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '08

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .9

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to .00602
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN construction.urb
 Project Name: Phase 1 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: June, 2006
 Construction Duration: 24
 Total Land Use Area to be Developed: 9.1 acres
 Maximum Acreage Disturbed Per Day: 2.27 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 516396

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	1.07	-	1.07
Off-Road Diesel	2.38	19.00	16.91	-	0.88	0.88	0.00
On-Road Diesel	0.18	3.28	0.67	0.06	0.09	0.08	0.01
Worker Trips	0.07	0.09	1.76	0.00	0.00	0.00	0.00
Maximum lbs/day	2.63	22.37	19.34	0.06	2.04	0.96	1.08
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	22.70	-	22.70
Off-Road Diesel	21.53	172.27	153.32	-	7.97	7.97	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.07	0.03	0.86	0.00	0.01	0.00	0.01
Maximum lbs/day	21.60	172.30	154.18	0.00	30.68	7.97	22.71
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	70.15	543.08	512.50	-	24.54	24.54	0.00
Bldg Const Worker Trips	1.05	0.60	12.62	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	71.20	543.67	525.12	0.00	24.73	24.55	0.18
Max lbs/day all phases	71.20	543.67	525.12	0.06	47.26	24.55	22.71
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	70.15	519.29	529.50	-	22.43	22.43	0.00
Bldg Const Worker Trips	0.98	0.56	11.86	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	71.13	519.85	541.36	0.00	22.63	22.45	0.18
Max lbs/day all phases	71.13	519.85	541.36	0.00	22.63	22.45	0.18

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	70.15	495.51	545.89	-	20.33	20.33	0.00
Bldg Const Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	141.30	-	-	-	-	-	-
Arch Coatings Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Asphalt Off-Gas	0.11	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.58	33.99	-	0.73	0.73	0.00
Asphalt On-Road Diesel	0.02	0.39	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.27	0.00	0.00	0.00	0.00
Maximum lbs/day	217.40	520.54	602.35	0.00	21.45	21.09	0.36
Max lbs/day all phases	217.40	520.54	602.35	0.00	21.45	21.09	0.36

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '06
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 67198.38936
 Building Volume Daily (cubic feet): 2545.15014
 On-Road Truck Travel (VMT): 141
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '06
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
5	Rubber Tired Dozers	352	0.590	8.0
5	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '06
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
12	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
12	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '08

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .9

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

2008

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	70.15	495.51	545.89	-	20.33	20.33	0.00
Bldg Const Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	141.30	-	-	-	-	-	-
Arch Coatings Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Asphalt Off-Gas	0.11	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.58	33.99	-	0.73	0.73	0.00
Asphalt On-Road Diesel	0.02	0.39	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.27	0.00	0.00	0.00	0.00
Maximum lbs/day	217.40	520.54	602.35	0.00	21.45	21.09	0.36
Max lbs/day all phases	217.40	520.54	602.35	0.00	21.45	21.09	0.36

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '06

Phase 1 Duration: 1.2 months

Building Volume Total (cubic feet): 67198.38936

Building Volume Daily (cubic feet): 2545.15014

On-Road Truck Travel (VMT): 141

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '06

Phase 2 Duration: 2.4 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
5	Rubber Tired Dozers	352	0.590	8.0
5	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 20.4 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
12	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
12	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '08

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .9

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to .00602
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

Phase 1 Construction (Mitigated)
(2005-2009)

Construction emissions were based on the following assumptions:

1. Start date: June 2006
2. Duration of construction: 24 months
3. Demolition: 4,480 square feet
4. Construction: 516,404 square feet
5. Grading: 9.10 acres (1.5 acres per acre of footprint area)
6. Asphalt Paving: 0.9 acres (10% of graded area)
7. Equivalent students: 5,613 (needed for URBEMIS2002 to generate proper area to be constructed)
8. Emulsified (aqueous fuel) is used as mitigation for off-road diesel equipment

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN construction.urb
Project Name: Phase 1 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10	PM10
	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
*** 2006 ***							
TOTALS (lbs/day,unmitigated)	71.20	543.67	525.12	0.06	47.26	24.55	22.71
TOTALS (lbs/day, mitigated)	71.20	467.64	525.12	0.06	20.45	9.09	11.36
*** 2007 ***							
TOTALS (lbs/day,unmitigated)	71.13	519.85	541.36	0.00	22.63	22.45	0.18
TOTALS (lbs/day, mitigated)	71.13	447.15	541.36	0.00	8.49	8.31	0.18
*** 2008 ***							
TOTALS (lbs/day,unmitigated)	217.40	520.54	602.35	0.00	21.45	21.09	0.36
TOTALS (lbs/day, mitigated)	217.40	447.87	602.35	0.00	8.18	7.82	0.36

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN construction.urb
Project Name: Phase 1 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 ***							
TOTALS (lbs/day, unmitigated)	71.20	543.67	525.12	0.06	47.26	24.55	22.71
TOTALS (lbs/day, mitigated)	71.20	467.64	525.12	0.06	20.45	9.09	11.36
*** 2007 ***							
TOTALS (lbs/day, unmitigated)	71.13	519.85	541.36	0.00	22.63	22.45	0.18
TOTALS (lbs/day, mitigated)	71.13	447.15	541.36	0.00	8.49	8.31	0.18
*** 2008 ***							
TOTALS (lbs/day, unmitigated)	217.40	520.54	602.35	0.00	21.45	21.09	0.36
TOTALS (lbs/day, mitigated)	217.40	447.87	602.35	0.00	8.18	7.82	0.36

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN construction.urb
 Project Name: Phase 1 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: June, 2006
 Construction Duration: 24
 Total Land Use Area to be Developed: 9.1 acres
 Maximum Acreage Disturbed Per Day: 2.27 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 516396

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	1.07	-	1.07
Off-Road Diesel	2.38	19.00	16.91	-	0.88	0.88	0.00
On-Road Diesel	0.18	3.28	0.67	0.06	0.09	0.08	0.01
Worker Trips	0.07	0.09	1.76	0.00	0.00	0.00	0.00
Maximum lbs/day	2.63	22.37	19.34	0.06	2.04	0.96	1.08
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	22.70	-	22.70
Off-Road Diesel	21.53	172.27	153.32	-	7.97	7.97	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.07	0.03	0.86	0.00	0.01	0.00	0.01
Maximum lbs/day	21.60	172.30	154.18	0.00	30.68	7.97	22.71
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	70.15	543.08	512.50	-	24.54	24.54	0.00
Bldg Const Worker Trips	1.05	0.60	12.62	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	71.20	543.67	525.12	0.00	24.73	24.55	0.18
Max lbs/day all phases	71.20	543.67	525.12	0.06	47.26	24.55	22.71
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	70.15	519.29	529.50	-	22.43	22.43	0.00
Bldg Const Worker Trips	0.98	0.56	11.86	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	71.13	519.85	541.36	0.00	22.63	22.45	0.18
Max lbs/day all phases	71.13	519.85	541.36	0.00	22.63	22.45	0.18

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	70.15	495.51	545.89	-	20.33	20.33	0.00
Bldg Const Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	141.30	-	-	-	-	-	-
Arch Coatings Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Asphalt Off-Gas	0.11	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.58	33.99	-	0.73	0.73	0.00
Asphalt On-Road Diesel	0.02	0.39	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.27	0.00	0.00	0.00	0.00
Maximum lbs/day	217.40	520.54	602.35	0.00	21.45	21.09	0.36
Max lbs/day all phases	217.40	520.54	602.35	0.00	21.45	21.09	0.36

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '06
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 67198.38936
 Building Volume Daily (cubic feet): 2545.15014
 On-Road Truck Travel (VMT): 141
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '06
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
5	Rubber Tired Dozers	352	0.590	8.0
5	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '06
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
12	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
12	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '08

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .9

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	70.15	426.14	545.89	-	7.52	7.52	0.00
Bldg Const Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	141.30	-	-	-	-	-	-
Arch Coatings Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Asphalt Off-Gas	0.11	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	20.28	33.99	-	0.27	0.27	0.00
Asphalt On-Road Diesel	0.02	0.39	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.27	0.00	0.00	0.00	0.00
Maximum lbs/day	217.40	447.87	602.35	0.00	8.18	7.82	0.36
Max lbs/day all phases	217.40	447.87	602.35	0.00	8.18	7.82	0.36

Construction-Related Mitigation Measures

Phase 1: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)

Phase 1 - Demolition Assumptions
 Start Month/Year for Phase 1: Jun '06
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 67198.38936
 Building Volume Daily (cubic feet): 2545.15014
 On-Road Truck Travel (VMT): 141
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions
 Start Month/Year for Phase 2: Jul '06
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
5	Rubber Tired Dozers	352	0.590	8.0
5	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
 Start Month/Year for Phase 3: Sep '06
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '06
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
12	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
12	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08
 SubPhase Architectural Coatings Duration: 2 months
 Start Month/Year for SubPhase Asphalt: May '08
 SubPhase Asphalt Duration: 1 months
 Acres to be Paved: .9
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to .00602

Phase 1 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN construction.urb
 Project Name: Phase 1 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: June, 2006
 Construction Duration: 24
 Total Land Use Area to be Developed: 9.1 acres
 Maximum Acreage Disturbed Per Day: 2.27 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 516396

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	1.07	-	1.07
Off-Road Diesel	2.38	19.00	16.91	-	0.88	0.88	0.00
On-Road Diesel	0.18	3.28	0.67	0.06	0.09	0.08	0.01
Worker Trips	0.07	0.09	1.76	0.00	0.00	0.00	0.00
Maximum lbs/day	2.63	22.37	19.34	0.06	2.04	0.96	1.08
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	22.70	-	22.70
Off-Road Diesel	21.53	172.27	153.32	-	7.97	7.97	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.07	0.03	0.86	0.00	0.01	0.00	0.01
Maximum lbs/day	21.60	172.30	154.18	0.00	30.68	7.97	22.71
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	70.15	543.08	512.50	-	24.54	24.54	0.00
Bldg Const Worker Trips	1.05	0.60	12.62	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	71.20	543.67	525.12	0.00	24.73	24.55	0.18
Max lbs/day all phases	71.20	543.67	525.12	0.06	47.26	24.55	22.71
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	70.15	519.29	529.50	-	22.43	22.43	0.00
Bldg Const Worker Trips	0.98	0.56	11.86	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	71.13	519.85	541.36	0.00	22.63	22.45	0.18
Max lbs/day all phases	71.13	519.85	541.36	0.00	22.63	22.45	0.18

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	70.15	495.51	545.89	-	20.33	20.33	0.00
Bldg Const Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	141.30	-	-	-	-	-	-
Arch Coatings Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Asphalt Off-Gas	0.11	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.58	33.99	-	0.73	0.73	0.00
Asphalt On-Road Diesel	0.02	0.39	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.27	0.00	0.00	0.00	0.00
Maximum lbs/day	217.40	520.54	602.35	0.00	21.45	21.09	0.36
Max lbs/day all phases	217.40	520.54	602.35	0.00	21.45	21.09	0.36

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '06
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 67198.38936
 Building Volume Daily (cubic feet): 2545.15014
 On-Road Truck Travel (VMT): 141
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '06
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
5	Rubber Tired Dozers	352	0.590	8.0
5	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '06
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
12	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
12	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '08

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .9

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	70.15	426.14	545.89	-	7.52	7.52	0.00
Bldg Const Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Arch Coatings Off-Gas	141.30	-	-	-	-	-	-
Arch Coatings Worker Trips	0.90	0.52	11.06	0.00	0.19	0.01	0.18
Asphalt Off-Gas	0.11	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	20.28	33.99	-	0.27	0.27	0.00
Asphalt On-Road Diesel	0.02	0.39	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.27	0.00	0.00	0.00	0.00
Maximum lbs/day	217.40	447.87	602.35	0.00	8.18	7.82	0.36
Max lbs/day all phases	217.40	447.87	602.35	0.00	8.18	7.82	0.36

Construction-Related Mitigation Measures

Phase 1: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)

Phase 1 - Demolition Assumptions
 Start Month/Year for Phase 1: Jun '06
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 67198.38936
 Building Volume Daily (cubic feet): 2545.15014
 On-Road Truck Travel (VMT): 141
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions
 Start Month/Year for Phase 2: Jul '06
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
5	Rubber Tired Dozers	352	0.590	8.0
5	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
 Start Month/Year for Phase 3: Sep '06
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '06
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
12	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
12	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08
 SubPhase Architectural Coatings Duration: 2 months
 Start Month/Year for SubPhase Asphalt: May '08
 SubPhase Asphalt Duration: 1 months
 Acres to be Paved: .9
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to .00602

Phase 1 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

**Phase 2 Construction
(2010-2014)**

Construction emissions were based on the following assumptions:

1. Start date: June 2010
2. Duration of construction: 24 months
3. Demolition: 19,441 square feet
4. Construction: 796,002 square feet
5. Grading: 13.68 acres (1.5 acres per acre of footprint area)
6. Asphalt Paving: 1.37 acres (10% of graded area)
7. Equivalent students: 8,652 (needed for URBEMIS2002 to generate proper area to be constructed)

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Construction.urb
Project Name: Phase 2 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010 ***							
TOTALS (lbs/day, unmitigated)	109.48	695.91	908.99	0.03	60.79	26.77	34.02
TOTALS (lbs/day, mitigated)	109.48	695.91	908.99	0.03	43.79	26.77	17.02
*** 2011 ***							
TOTALS (lbs/day, unmitigated)	109.48	695.91	908.99	0.00	27.04	26.77	0.27
TOTALS (lbs/day, mitigated)	109.48	695.91	908.99	0.00	27.04	26.77	0.27
*** 2012 ***							
TOTALS (lbs/day, unmitigated)	213.25	720.29	957.78	0.00	27.99	27.44	0.55
TOTALS (lbs/day, mitigated)	213.25	720.29	957.78	0.00	27.99	27.44	0.55

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Construction.urb
Project Name: Phase 2 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010 ***							
TOTALS (lbs/day, unmitigated)	109.48	695.91	908.99	0.03	60.79	26.77	34.02
TOTALS (lbs/day, mitigated)	109.48	695.91	908.99	0.03	43.79	26.77	17.02
*** 2011 ***							
TOTALS (lbs/day, unmitigated)	109.48	695.91	908.99	0.00	27.04	26.77	0.27
TOTALS (lbs/day, mitigated)	109.48	695.91	908.99	0.00	27.04	26.77	0.27
*** 2012 ***							
TOTALS (lbs/day, unmitigated)	213.25	720.29	957.78	0.00	27.99	27.44	0.55
TOTALS (lbs/day, mitigated)	213.25	720.29	957.78	0.00	27.99	27.44	0.55

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Construction.urb
 Project Name: Phase 2 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: June, 2010
 Construction Duration: 24
 Total Land Use Area to be Developed: 13.7 acres
 Maximum Acreage Disturbed Per Day: 3.4 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 795984

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	4.64	-	4.64
Off-Road Diesel	2.38	15.46	19.52	-	0.62	0.62	0.00
On-Road Diesel	0.56	9.45	2.11	0.03	0.29	0.23	0.06
Worker Trips	0.05	0.06	1.27	0.00	0.00	0.00	0.00
Maximum lbs/day	2.99	24.97	22.90	0.03	5.55	0.85	4.70
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	34.00	-	34.00
Off-Road Diesel	30.15	196.26	247.82	-	7.84	7.84	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.07	0.04	0.96	0.00	0.02	0.00	0.02
Maximum lbs/day	30.22	196.30	248.78	0.00	41.86	7.84	34.02
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	109.48	695.91	908.99	0.00	27.04	26.77	0.27
Max lbs/day all phases	109.48	695.91	908.99	0.03	60.79	26.77	34.02
*** 2011***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	109.48	695.91	908.99	0.00	27.04	26.77	0.27
Max lbs/day all phases	109.48	695.91	908.99	0.00	27.04	26.77	0.27

*** 2012***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	98.41	-	-	-	-	-	-
Arch Coatings Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Asphalt Off-Gas	0.17	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.03	0.49	0.10	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.00	0.00	0.00
Maximum lbs/day	213.25	720.29	957.78	0.00	27.99	27.44	0.55

Max lbs/day all phases 213.25 720.29 957.78 0.00 27.99 27.44 0.55

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '10
Phase 1 Duration: 1.2 months
Building Volume Total (cubic feet): 291610.8735
Building Volume Daily (cubic feet): 11046.251535
On-Road Truck Travel (VMT): 615

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10
Phase 2 Duration: 2.4 months
On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Rubber Tired Dozers	352	0.590	8.0
7	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '10
Phase 3 Duration: 20.4 months
Start Month/Year for SubPhase Building: Sep '10
SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
18	Concrete/Industrial saws	84	0.730	8.0
36	Other Equipment	190	0.620	8.0
18	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '12

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '12

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 1.4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	98.41	-	-	-	-	-	-
Arch Coatings Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Asphalt Off-Gas	0.17	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.03	0.49	0.10	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.00	0.00	0.00
Maximum lbs/day	213.25	720.29	957.78	0.00	27.99	27.44	0.55
Max lbs/day all phases	213.25	720.29	957.78	0.00	27.99	27.44	0.55

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '10

Phase 1 Duration: 1.2 months

Building Volume Total (cubic feet): 291610.8735

Building Volume Daily (cubic feet): 11046.251535

On-Road Truck Travel (VMT): 615

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10

Phase 2 Duration: 2.4 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Rubber Tired Dozers	352	0.590	8.0
7	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '10

Phase 3 Duration: 20.4 months

Start Month/Year for SubPhase Building: Sep '10

SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
18	Concrete/Industrial saws	84	0.730	8.0
36	Other Equipment	190	0.620	8.0
18	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '12

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '12

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 1.4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.00272
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Construction.urb
 Project Name: Phase 2 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: June, 2010
 Construction Duration: 24
 Total Land Use Area to be Developed: 13.7 acres
 Maximum Acreage Disturbed Per Day: 3.4 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 795984

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	4.64	-	4.64
Off-Road Diesel	2.38	15.46	19.52	-	0.62	0.62	0.00
On-Road Diesel	0.56	9.45	2.11	0.03	0.29	0.23	0.06
Worker Trips	0.05	0.06	1.27	0.00	0.00	0.00	0.00
Maximum lbs/day	2.99	24.97	22.90	0.03	5.55	0.85	4.70
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	34.00	-	34.00
Off-Road Diesel	30.15	196.26	247.82	-	7.84	7.84	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.07	0.04	0.96	0.00	0.02	0.00	0.02
Maximum lbs/day	30.22	196.30	248.78	0.00	41.86	7.84	34.02
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	109.48	695.91	908.99	0.00	27.04	26.77	0.27
Max lbs/day all phases	109.48	695.91	908.99	0.03	60.79	26.77	34.02
*** 2011***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	109.48	695.91	908.99	0.00	27.04	26.77	0.27
Max lbs/day all phases	109.48	695.91	908.99	0.00	27.04	26.77	0.27

*** 2012***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	98.41	-	-	-	-	-	-
Arch Coatings Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Asphalt Off-Gas	0.17	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.03	0.49	0.10	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.00	0.00	0.00
Maximum lbs/day	213.25	720.29	957.78	0.00	27.99	27.44	0.55
Max lbs/day all phases	213.25	720.29	957.78	0.00	27.99	27.44	0.55

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '10
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 291610.8735
 Building Volume Daily (cubic feet): 11046.251535
 On-Road Truck Travel (VMT): 615
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Rubber Tired Dozers	352	0.590	8.0
7	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '10
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '10
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
18	Concrete/Industrial saws	84	0.730	8.0
36	Other Equipment	190	0.620	8.0
18	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '12

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '12

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 1.4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	98.41	-	-	-	-	-	-
Arch Coatings Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Asphalt Off-Gas	0.17	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.03	0.49	0.10	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.00	0.00	0.00
Maximum lbs/day	213.25	720.29	957.78	0.00	27.99	27.44	0.55
Max lbs/day all phases	213.25	720.29	957.78	0.00	27.99	27.44	0.55

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '10

Phase 1 Duration: 1.2 months

Building Volume Total (cubic feet): 291610.8735

Building Volume Daily (cubic feet): 11046.251535

On-Road Truck Travel (VMT): 615

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10

Phase 2 Duration: 2.4 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Rubber Tired Dozers	352	0.590	8.0
7	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '10

Phase 3 Duration: 20.4 months

Start Month/Year for SubPhase Building: Sep '10

SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
18	Concrete/Industrial saws	84	0.730	8.0
36	Other Equipment	190	0.620	8.0
18	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '12

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '12

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 1.4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.00272
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

Phase 2 Construction (Mitigated)
(2010-2014)

Construction emissions were based on the following assumptions:

1. Start date: June 2010
2. Duration of construction: 24 months
3. Demolition: 19,441 square feet
4. Construction: 796,002 square feet
5. Grading: 13.68 acres (1.5 acres per acre of footprint area)
6. Asphalt Paving: 1.37 acres (10% of graded area)
7. Equivalent students: 8,652 (needed for URBEMIS2002 to generate proper area to be constructed)
8. Emulsified (aqueous fuel) is used as mitigation for off-road diesel equipment

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Construction.urb
Project Name: Phase 2 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010 ***							
TOTALS (lbs/day, unmitigated)	109.48	695.91	908.99	0.03	60.79	26.77	34.02
TOTALS (lbs/day, mitigated)	109.48	598.58	908.99	0.03	26.94	9.92	17.02
*** 2011 ***							
TOTALS (lbs/day, unmitigated)	109.48	695.91	908.99	0.00	27.04	26.77	0.27
TOTALS (lbs/day, mitigated)	109.48	598.58	908.99	0.00	10.19	9.92	0.27
*** 2012 ***							
TOTALS (lbs/day, unmitigated)	213.25	720.29	957.78	0.00	27.99	27.44	0.55
TOTALS (lbs/day, mitigated)	213.25	619.71	957.78	0.00	10.74	10.19	0.55

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Construction.urb
Project Name: Phase 2 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010 ***							
TOTALS (lbs/day, unmitigated)	109.48	695.91	908.99	0.03	60.79	26.77	34.02
TOTALS (lbs/day, mitigated)	109.48	598.58	908.99	0.03	26.94	9.92	17.02
*** 2011 ***							
TOTALS (lbs/day, unmitigated)	109.48	695.91	908.99	0.00	27.04	26.77	0.27
TOTALS (lbs/day, mitigated)	109.48	598.58	908.99	0.00	10.19	9.92	0.27
*** 2012 ***							
TOTALS (lbs/day, unmitigated)	213.25	720.29	957.78	0.00	27.99	27.44	0.55
TOTALS (lbs/day, mitigated)	213.25	619.71	957.78	0.00	10.74	10.19	0.55

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Construction.urb
 Project Name: Phase 2 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: June, 2010
 Construction Duration: 24
 Total Land Use Area to be Developed: 13.7 acres
 Maximum Acreage Disturbed Per Day: 3.4 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 795984

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	4.64	-	4.64
Off-Road Diesel	2.38	15.46	19.52	-	0.62	0.62	0.00
On-Road Diesel	0.56	9.45	2.11	0.03	0.29	0.23	0.06
Worker Trips	0.05	0.06	1.27	0.00	0.00	0.00	0.00
Maximum lbs/day	2.99	24.97	22.90	0.03	5.55	0.85	4.70
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	34.00	-	34.00
Off-Road Diesel	30.15	196.26	247.82	-	7.84	7.84	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.07	0.04	0.96	0.00	0.02	0.00	0.02
Maximum lbs/day	30.22	196.30	248.78	0.00	41.86	7.84	34.02
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	109.48	695.91	908.99	0.00	27.04	26.77	0.27
Max lbs/day all phases	109.48	695.91	908.99	0.03	60.79	26.77	34.02
*** 2011***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	109.48	695.91	908.99	0.00	27.04	26.77	0.27
Max lbs/day all phases	109.48	695.91	908.99	0.00	27.04	26.77	0.27

*** 2012***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	98.41	-	-	-	-	-	-
Arch Coatings Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Asphalt Off-Gas	0.17	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.03	0.49	0.10	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.00	0.00	0.00
Maximum lbs/day	213.25	720.29	957.78	0.00	27.99	27.44	0.55
Max lbs/day all phases	213.25	720.29	957.78	0.00	27.99	27.44	0.55

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '10
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 291610.8735
 Building Volume Daily (cubic feet): 11046.251535
 On-Road Truck Travel (VMT): 615

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Rubber Tired Dozers	352	0.590	8.0
7	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '10
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '10
 SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
18	Concrete/Industrial saws	84	0.730	8.0
36	Other Equipment	190	0.620	8.0
18	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '12

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '12

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 1.4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	108.34	597.90	894.52	-	9.90	9.90	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	98.41	-	-	-	-	-	-
Arch Coatings Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Asphalt Off-Gas	0.17	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	19.94	33.99	-	0.24	0.24	0.00
Asphalt On-Road Diesel	0.03	0.49	0.10	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.00	0.00	0.00
Maximum lbs/day	213.25	619.71	957.78	0.00	10.74	10.19	0.55
Max lbs/day all phases	213.25	619.71	957.78	0.00	10.74	10.19	0.55

Construction-Related Mitigation Measures

Phase 1: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)

Phase 1 - Demolition Assumptions
 Start Month/Year for Phase 1: Jun '10
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 291610.8735
 Building Volume Daily (cubic feet): 11046.251535
 On-Road Truck Travel (VMT): 615
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions
 Start Month/Year for Phase 2: Jul '10
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Rubber Tired Dozers	352	0.590	8.0
7	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
 Start Month/Year for Phase 3: Sep '10
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '10
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
18	Concrete/Industrial saws	84	0.730	8.0
36	Other Equipment	190	0.620	8.0
18	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '12
 SubPhase Architectural Coatings Duration: 2 months
 Start Month/Year for SubPhase Asphalt: May '12
 SubPhase Asphalt Duration: 1 months

Acres to be Paved: 1.4
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.00272
Phase 1 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Construction.urb
 Project Name: Phase 2 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: June, 2010
 Construction Duration: 24
 Total Land Use Area to be Developed: 13.7 acres
 Maximum Acreage Disturbed Per Day: 3.4 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 795984

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	4.64	-	4.64
Off-Road Diesel	2.38	15.46	19.52	-	0.62	0.62	0.00
On-Road Diesel	0.56	9.45	2.11	0.03	0.29	0.23	0.06
Worker Trips	0.05	0.06	1.27	0.00	0.00	0.00	0.00
Maximum lbs/day	2.99	24.97	22.90	0.03	5.55	0.85	4.70
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	34.00	-	34.00
Off-Road Diesel	30.15	196.26	247.82	-	7.84	7.84	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.07	0.04	0.96	0.00	0.02	0.00	0.02
Maximum lbs/day	30.22	196.30	248.78	0.00	41.86	7.84	34.02
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	109.48	695.91	908.99	0.00	27.04	26.77	0.27
Max lbs/day all phases	109.48	695.91	908.99	0.03	60.79	26.77	34.02
*** 2011***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	109.48	695.91	908.99	0.00	27.04	26.77	0.27
Max lbs/day all phases	109.48	695.91	908.99	0.00	27.04	26.77	0.27

*** 2012***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	108.34	695.23	894.52	-	26.75	26.75	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	98.41	-	-	-	-	-	-
Arch Coatings Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Asphalt Off-Gas	0.17	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.03	0.49	0.10	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.00	0.00	0.00
Maximum lbs/day	213.25	720.29	957.78	0.00	27.99	27.44	0.55
Max lbs/day all phases	213.25	720.29	957.78	0.00	27.99	27.44	0.55

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '10
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 291610.8735
 Building Volume Daily (cubic feet): 11046.251535
 On-Road Truck Travel (VMT): 615

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Rubber Tired Dozers	352	0.590	8.0
7	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '10
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '10
 SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
18	Concrete/Industrial saws	84	0.730	8.0
36	Other Equipment	190	0.620	8.0
18	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '12

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '12

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 1.4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	108.34	597.90	894.52	-	9.90	9.90	0.00
Bldg Const Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Arch Coatings Off-Gas	98.41	-	-	-	-	-	-
Arch Coatings Worker Trips	1.14	0.68	14.47	0.00	0.29	0.02	0.27
Asphalt Off-Gas	0.17	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	19.94	33.99	-	0.24	0.24	0.00
Asphalt On-Road Diesel	0.03	0.49	0.10	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.00	0.00	0.00
Maximum lbs/day	213.25	619.71	957.78	0.00	10.74	10.19	0.55
Max lbs/day all phases	213.25	619.71	957.78	0.00	10.74	10.19	0.55

Construction-Related Mitigation Measures

Phase 1: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '10
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 291610.8735
 Building Volume Daily (cubic feet): 11046.251535
 On-Road Truck Travel (VMT): 615
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Rubber Tired Dozers	352	0.590	8.0
7	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '10
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '10
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
18	Concrete/Industrial saws	84	0.730	8.0
36	Other Equipment	190	0.620	8.0
18	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '12
 SubPhase Architectural Coatings Duration: 2 months
 Start Month/Year for SubPhase Asphalt: May '12
 SubPhase Asphalt Duration: 1 months
 Acres to be Paved: 1.4
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.00272
Phase 1 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

**Phase 3 Construction
(2015-2019)**

Construction emissions were based on the following assumptions:

1. Start date: June 2015
2. Duration of construction: 24 months
3. Demolition: 90,684 square feet
4. Construction: 657,926 square feet
5. Grading: 5.90 acres (1.5 acres per acre of footprint area)
6. Asphalt Paving: 0.59 acres (10% of graded area)
7. Equivalent students: 7,151 (needed for URBEMIS2002 to generate proper area to be constructed)

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Construction.urb
Project Name: Phase 3 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015 ***							
TOTALS (lbs/day, unmitigated)	90.86	579.71	753.28	0.13	44.27	22.31	21.96
TOTALS (lbs/day, mitigated)	90.86	579.71	753.28	0.13	44.27	22.31	21.96
*** 2016 ***							
TOTALS (lbs/day, unmitigated)	90.86	579.71	753.28	0.00	22.53	22.31	0.22
TOTALS (lbs/day, mitigated)	90.86	579.71	753.28	0.00	22.53	22.31	0.22
*** 2017 ***							
TOTALS (lbs/day, unmitigated)	176.87	603.37	795.30	0.00	23.40	22.96	0.44
TOTALS (lbs/day, mitigated)	176.87	603.37	795.30	0.00	23.40	22.96	0.44

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Construction.urb
Project Name: Phase 3 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015 ***							
TOTALS (lbs/day, unmitigated)	90.86	579.71	753.28	0.13	44.27	22.31	21.96
TOTALS (lbs/day, mitigated)	90.86	579.71	753.28	0.13	44.27	22.31	21.96
*** 2016 ***							
TOTALS (lbs/day, unmitigated)	90.86	579.71	753.28	0.00	22.53	22.31	0.22
TOTALS (lbs/day, mitigated)	90.86	579.71	753.28	0.00	22.53	22.31	0.22
*** 2017 ***							
TOTALS (lbs/day, unmitigated)	176.87	603.37	795.30	0.00	23.40	22.96	0.44
TOTALS (lbs/day, mitigated)	176.87	603.37	795.30	0.00	23.40	22.96	0.44

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Construction.urb
 Project Name: Phase 3 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: June, 2015
 Construction Duration: 24
 Total Land Use Area to be Developed: 5.8 acres
 Maximum Acreage Disturbed Per Day: 1.5 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 657892

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	21.64	-	21.64
Off-Road Diesel	8.41	54.75	69.13	-	2.19	2.19	0.00
On-Road Diesel	1.70	22.72	6.89	0.13	0.97	0.66	0.31
Worker Trips	0.07	0.09	1.87	0.00	0.02	0.01	0.01
Maximum lbs/day	10.18	77.56	77.89	0.13	24.82	2.86	21.96
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	15.00	-	15.00
Off-Road Diesel	12.92	84.11	106.21	-	3.36	3.36	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.02	0.01	0.28	0.00	0.01	0.00	0.01
Maximum lbs/day	12.94	84.12	106.49	0.00	18.37	3.36	15.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	90.86	579.71	753.28	0.00	22.53	22.31	0.22
Max lbs/day all phases	90.86	579.71	753.28	0.13	44.27	22.31	21.96
*** 2016***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	90.86	579.71	753.28	0.00	22.53	22.31	0.22
Max lbs/day all phases	90.86	579.71	753.28	0.00	22.53	22.31	0.22

*** 2017***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	81.34	-	-	-	-	-	-
Arch Coatings Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Asphalt Off-Gas	0.07	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.01	0.11	0.03	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00
Maximum lbs/day	176.87	603.37	795.30	0.00	23.40	22.96	0.44

Max lbs/day all phases 176.87 603.37 795.30 0.00 23.40 22.96 0.44

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '15
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 1360279.494
 Building Volume Daily (cubic feet): 51526.9815
 On-Road Truck Travel (VMT): 2862
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
1	Rubber Tired Dozers	352	0.590	8.0
4	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '15
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '15
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
15	Concrete/Industrial saws	84	0.730	8.0
30	Other Equipment	190	0.620	8.0
15	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '17
 SubPhase Architectural Coatings Duration: 2 months
 Start Month/Year for SubPhase Asphalt: May '17
 SubPhase Asphalt Duration: 1 months
 Acres to be Paved: .6

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	81.34	-	-	-	-	-	-
Arch Coatings Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Asphalt Off-Gas	0.07	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.01	0.11	0.03	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00
Maximum lbs/day	176.87	603.37	795.30	0.00	23.40	22.96	0.44
Max lbs/day all phases	176.87	603.37	795.30	0.00	23.40	22.96	0.44

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '15

Phase 1 Duration: 1.2 months

Building Volume Total (cubic feet): 1360279.494

Building Volume Daily (cubic feet): 51526.9815

On-Road Truck Travel (VMT): 2862

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
1	Rubber Tired Dozers	352	0.590	8.0
4	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15

Phase 2 Duration: 2.4 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '15

Phase 3 Duration: 20.4 months

Start Month/Year for SubPhase Building: Sep '15

SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
15	Concrete/Industrial saws	84	0.730	8.0
30	Other Equipment	190	0.620	8.0
15	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '17

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '17

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .6

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.00272

Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Construction.urb
 Project Name: Phase 3 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: June, 2015
 Construction Duration: 24
 Total Land Use Area to be Developed: 5.8 acres
 Maximum Acreage Disturbed Per Day: 1.5 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 657892

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	21.64	-	21.64
Off-Road Diesel	8.41	54.75	69.13	-	2.19	2.19	0.00
On-Road Diesel	1.70	22.72	6.89	0.13	0.97	0.66	0.31
Worker Trips	0.07	0.09	1.87	0.00	0.02	0.01	0.01
Maximum lbs/day	10.18	77.56	77.89	0.13	24.82	2.86	21.96
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	15.00	-	15.00
Off-Road Diesel	12.92	84.11	106.21	-	3.36	3.36	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.02	0.01	0.28	0.00	0.01	0.00	0.01
Maximum lbs/day	12.94	84.12	106.49	0.00	18.37	3.36	15.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	90.86	579.71	753.28	0.00	22.53	22.31	0.22
Max lbs/day all phases	90.86	579.71	753.28	0.13	44.27	22.31	21.96
*** 2016***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	90.86	579.71	753.28	0.00	22.53	22.31	0.22
Max lbs/day all phases	90.86	579.71	753.28	0.00	22.53	22.31	0.22

*** 2017***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	81.34	-	-	-	-	-	-
Arch Coatings Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Asphalt Off-Gas	0.07	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.01	0.11	0.03	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00
Maximum lbs/day	176.87	603.37	795.30	0.00	23.40	22.96	0.44
Max lbs/day all phases	176.87	603.37	795.30	0.00	23.40	22.96	0.44

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '15
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 1360279.494
 Building Volume Daily (cubic feet): 51526.9815
 On-Road Truck Travel (VMT): 2862

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
1	Rubber Tired Dozers	352	0.590	8.0
4	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '15
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '15
 SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
15	Concrete/Industrial saws	84	0.730	8.0
30	Other Equipment	190	0.620	8.0
15	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '17

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '17

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .6

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

2017

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00	
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22	
Arch Coatings Off-Gas	81.34	-	-	-	-	-	-	
Arch Coatings Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22	
Asphalt Off-Gas	0.07	-	-	-	-	-	-	
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00	
Asphalt On-Road Diesel	0.01	0.11	0.03	0.00	0.00	0.00	0.00	
Asphalt Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00	
Maximum lbs/day	176.87	603.37	795.30	0.00	23.40	22.96	0.44	
Max lbs/day all phases	176.87	603.37	795.30	0.00	23.40	22.96	0.44	

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '15

Phase 1 Duration: 1.2 months

Building Volume Total (cubic feet): 1360279.494

Building Volume Daily (cubic feet): 51526.9815

On-Road Truck Travel (VMT): 2862

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
1	Rubber Tired Dozers	352	0.590	8.0
4	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15

Phase 2 Duration: 2.4 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '15

Phase 3 Duration: 20.4 months

Start Month/Year for SubPhase Building: Sep '15

SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
15	Concrete/Industrial saws	84	0.730	8.0
30	Other Equipment	190	0.620	8.0
15	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '17

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '17

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .6

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.00272
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

Phase 3 Construction (Mitigated)
(2015-2019)

Construction emissions were based on the following assumptions:

1. Start date: June 2015
2. Duration of construction: 24 months
3. Demolition: 90,684 square feet
4. Construction: 657,926 square feet
5. Grading: 5.90 acres (1.5 acres per acre of footprint area)
6. Asphalt Paving: 0.59 acres (10% of graded area)
7. Equivalent students: 7,151 (needed for URBEMIS2002 to generate proper area to be constructed)
8. Emulsified (aqueous fuel) is used as mitigation for off-road diesel equipment

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Construction.urb
Project Name: Phase 3 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015 ***							
TOTALS (lbs/day, unmitigated)	90.86	579.71	753.28	0.13	44.27	22.31	21.96
TOTALS (lbs/day, mitigated)	90.86	498.60	753.28	0.13	30.22	8.26	21.96
*** 2016 ***							
TOTALS (lbs/day, unmitigated)	90.86	579.71	753.28	0.00	22.53	22.31	0.22
TOTALS (lbs/day, mitigated)	90.86	498.60	753.28	0.00	8.48	8.26	0.22
*** 2017 ***							
TOTALS (lbs/day, unmitigated)	176.87	603.37	795.30	0.00	23.40	22.96	0.44
TOTALS (lbs/day, mitigated)	176.87	519.01	795.30	0.00	8.95	8.51	0.44

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Construction.urb
Project Name: Phase 3 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015 ***							
TOTALS (lbs/day, unmitigated)	90.86	579.71	753.28	0.13	44.27	22.31	21.96
TOTALS (lbs/day, mitigated)	90.86	498.60	753.28	0.13	30.22	8.26	21.96
*** 2016 ***							
TOTALS (lbs/day, unmitigated)	90.86	579.71	753.28	0.00	22.53	22.31	0.22
TOTALS (lbs/day, mitigated)	90.86	498.60	753.28	0.00	8.48	8.26	0.22
*** 2017 ***							
TOTALS (lbs/day, unmitigated)	176.87	603.37	795.30	0.00	23.40	22.96	0.44
TOTALS (lbs/day, mitigated)	176.87	519.01	795.30	0.00	8.95	8.51	0.44

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Construction.urb
 Project Name: Phase 3 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: June, 2015
 Construction Duration: 24
 Total Land Use Area to be Developed: 5.8 acres
 Maximum Acreage Disturbed Per Day: 1.5 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 657892

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	21.64	-	21.64
Off-Road Diesel	8.41	54.75	69.13	-	2.19	2.19	0.00
On-Road Diesel	1.70	22.72	6.89	0.13	0.97	0.66	0.31
Worker Trips	0.07	0.09	1.87	0.00	0.02	0.01	0.01
Maximum lbs/day	10.18	77.56	77.89	0.13	24.82	2.86	21.96
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	15.00	-	15.00
Off-Road Diesel	12.92	84.11	106.21	-	3.36	3.36	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.02	0.01	0.28	0.00	0.01	0.00	0.01
Maximum lbs/day	12.94	84.12	106.49	0.00	18.37	3.36	15.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	90.86	579.71	753.28	0.00	22.53	22.31	0.22
Max lbs/day all phases	90.86	579.71	753.28	0.13	44.27	22.31	21.96
*** 2016***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	90.86	579.71	753.28	0.00	22.53	22.31	0.22
Max lbs/day all phases	90.86	579.71	753.28	0.00	22.53	22.31	0.22

*** 2017***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	81.34	-	-	-	-	-	-
Arch Coatings Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Asphalt Off-Gas	0.07	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.01	0.11	0.03	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00
Maximum lbs/day	176.87	603.37	795.30	0.00	23.40	22.96	0.44
Max lbs/day all phases	176.87	603.37	795.30	0.00	23.40	22.96	0.44

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '15
Phase 1 Duration: 1.2 months
Building Volume Total (cubic feet): 1360279.494
Building Volume Daily (cubic feet): 51526.9815
On-Road Truck Travel (VMT): 2862

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
1	Rubber Tired Dozers	352	0.590	8.0
4	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15
Phase 2 Duration: 2.4 months
On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '15
Phase 3 Duration: 20.4 months
Start Month/Year for SubPhase Building: Sep '15
SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
15	Concrete/Industrial saws	84	0.730	8.0
30	Other Equipment	190	0.620	8.0
15	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '17

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '17

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .6

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	90.28	498.25	745.43	-	8.25	8.25	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	81.34	-	-	-	-	-	-
Arch Coatings Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Asphalt Off-Gas	0.07	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	19.94	33.99	-	0.24	0.24	0.00
Asphalt On-Road Diesel	0.01	0.11	0.03	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00
Maximum lbs/day	176.87	519.01	795.30	0.00	8.95	8.51	0.44
Max lbs/day all phases	176.87	519.01	795.30	0.00	8.95	8.51	0.44

Construction-Related Mitigation Measures

Phase 1: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '15
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 1360279.494
 Building Volume Daily (cubic feet): 51526.9815
 On-Road Truck Travel (VMT): 2862
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
1	Rubber Tired Dozers	352	0.590	8.0
4	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '15
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '15
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
15	Concrete/Industrial saws	84	0.730	8.0
30	Other Equipment	190	0.620	8.0
15	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '17
 SubPhase Architectural Coatings Duration: 2 months
 Start Month/Year for SubPhase Asphalt: May '17
 SubPhase Asphalt Duration: 1 months
 Acres to be Paved: .6
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.00272

Phase 1 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Construction.urb
 Project Name: Phase 3 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: June, 2015
 Construction Duration: 24
 Total Land Use Area to be Developed: 5.8 acres
 Maximum Acreage Disturbed Per Day: 1.5 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 657892

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	21.64	-	21.64
Off-Road Diesel	8.41	54.75	69.13	-	2.19	2.19	0.00
On-Road Diesel	1.70	22.72	6.89	0.13	0.97	0.66	0.31
Worker Trips	0.07	0.09	1.87	0.00	0.02	0.01	0.01
Maximum lbs/day	10.18	77.56	77.89	0.13	24.82	2.86	21.96
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	15.00	-	15.00
Off-Road Diesel	12.92	84.11	106.21	-	3.36	3.36	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.02	0.01	0.28	0.00	0.01	0.00	0.01
Maximum lbs/day	12.94	84.12	106.49	0.00	18.37	3.36	15.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	90.86	579.71	753.28	0.00	22.53	22.31	0.22
Max lbs/day all phases	90.86	579.71	753.28	0.13	44.27	22.31	21.96
*** 2016***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	90.86	579.71	753.28	0.00	22.53	22.31	0.22
Max lbs/day all phases	90.86	579.71	753.28	0.00	22.53	22.31	0.22

*** 2017***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	90.28	579.36	745.43	-	22.29	22.29	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	81.34	-	-	-	-	-	-
Arch Coatings Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Asphalt Off-Gas	0.07	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.01	0.11	0.03	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00
Maximum lbs/day	176.87	603.37	795.30	0.00	23.40	22.96	0.44
Max lbs/day all phases	176.87	603.37	795.30	0.00	23.40	22.96	0.44

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '15
Phase 1 Duration: 1.2 months
Building Volume Total (cubic feet): 1360279.494
Building Volume Daily (cubic feet): 51526.9815
On-Road Truck Travel (VMT): 2862

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
1	Rubber Tired Dozers	352	0.590	8.0
4	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15
Phase 2 Duration: 2.4 months
On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '15
Phase 3 Duration: 20.4 months
Start Month/Year for SubPhase Building: Sep '15
SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
15	Concrete/Industrial saws	84	0.730	8.0
30	Other Equipment	190	0.620	8.0
15	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '17

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '17

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .6

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	90.28	498.25	745.43	-	8.25	8.25	0.00
Bldg Const Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Arch Coatings Off-Gas	81.34	-	-	-	-	-	-
Arch Coatings Worker Trips	0.58	0.35	7.85	0.00	0.23	0.01	0.22
Asphalt Off-Gas	0.07	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	19.94	33.99	-	0.24	0.24	0.00
Asphalt On-Road Diesel	0.01	0.11	0.03	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00
Maximum lbs/day	176.87	519.01	795.30	0.00	8.95	8.51	0.44
Max lbs/day all phases	176.87	519.01	795.30	0.00	8.95	8.51	0.44

Construction-Related Mitigation Measures

Phase 1: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '15
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 1360279.494
 Building Volume Daily (cubic feet): 51526.9815
 On-Road Truck Travel (VMT): 2862
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
1	Rubber Tired Dozers	352	0.590	8.0
4	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '15
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '15
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
15	Concrete/Industrial saws	84	0.730	8.0
30	Other Equipment	190	0.620	8.0
15	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '17

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '17

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .6

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.00272

Phase 1 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

**Phase 4 Construction
(2020-2035)**

Construction emissions were based on the following assumptions:

1. Start date: June 2020
2. Duration of construction: 24 months
3. Demolition: 9,503 square feet
4. Construction: 293,185 square feet
5. Grading: 2.92 acres (1.5 acres per acre of footprint area)
6. Asphalt Paving: 0.29 acres (10% of graded area)
7. Equivalent students: 3,187 (needed for URBEMIS2002 to generate proper area to be constructed)

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Construction.urb
Project Name: Phase 4 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2020 ***							
TOTALS (lbs/day, unmitigated)	40.22	256.95	333.11	0.01	16.87	9.87	7.00
TOTALS (lbs/day, mitigated)	40.22	256.95	333.11	0.01	13.37	9.87	3.50
*** 2021 ***							
TOTALS (lbs/day, unmitigated)	40.22	256.95	333.11	0.00	9.97	9.87	0.10
TOTALS (lbs/day, mitigated)	40.22	256.95	333.11	0.00	9.97	9.87	0.10
*** 2022 ***							
TOTALS (lbs/day, unmitigated)	80.67	280.28	369.51	0.00	10.72	10.52	0.20
TOTALS (lbs/day, mitigated)	80.67	280.28	369.51	0.00	10.72	10.52	0.20

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Construction.urb
Project Name: Phase 4 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2020 ***							
TOTALS (lbs/day, unmitigated)	40.22	256.95	333.11	0.01	16.87	9.87	7.00
TOTALS (lbs/day, mitigated)	40.22	256.95	333.11	0.01	13.37	9.87	3.50
*** 2021 ***							
TOTALS (lbs/day, unmitigated)	40.22	256.95	333.11	0.00	9.97	9.87	0.10
TOTALS (lbs/day, mitigated)	40.22	256.95	333.11	0.00	9.97	9.87	0.10
*** 2022 ***							
TOTALS (lbs/day, unmitigated)	80.67	280.28	369.51	0.00	10.72	10.52	0.20
TOTALS (lbs/day, mitigated)	80.67	280.28	369.51	0.00	10.72	10.52	0.20

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Construction.urb
 Project Name: Phase 4 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: June, 2020
 Construction Duration: 24
 Total Land Use Area to be Developed: 2.9 acres
 Maximum Acreage Disturbed Per Day: 0.7 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 293204

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2020***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	2.27	-	2.27
Off-Road Diesel	2.38	15.46	19.52	-	0.62	0.62	0.00
On-Road Diesel	0.13	1.28	0.59	0.01	0.08	0.05	0.03
Worker Trips	0.02	0.02	0.56	0.00	0.00	0.00	0.00
Maximum lbs/day	2.53	16.76	20.67	0.01	2.97	0.67	2.30
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	7.00	-	7.00
Off-Road Diesel	4.31	28.04	35.40	-	1.12	1.12	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Maximum lbs/day	4.31	28.04	35.45	0.00	8.12	1.12	7.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	40.22	256.95	333.11	0.00	9.97	9.87	0.10
Max lbs/day all phases	40.22	256.95	333.11	0.01	16.87	9.87	7.00
*** 2021***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	40.22	256.95	333.11	0.00	9.97	9.87	0.10
Max lbs/day all phases	40.22	256.95	333.11	0.00	9.97	9.87	0.10

*** 2022***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	36.25	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Asphalt Off-Gas	0.04	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.00	0.10	0.00	0.00	0.00	0.00
Maximum lbs/day	80.67	280.28	369.51	0.00	10.72	10.52	0.20
Max lbs/day all phases	80.67	280.28	369.51	0.00	10.72	10.52	0.20

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '20
Phase 1 Duration: 1.2 months
Building Volume Total (cubic feet): 142593.75
Building Volume Daily (cubic feet): 5415
On-Road Truck Travel (VMT): 300
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '20
Phase 2 Duration: 2.4 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '20
Phase 3 Duration: 20.4 months
Start Month/Year for SubPhase Building: Sep '20
SubPhase Building Duration: 20.4 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Concrete/Industrial saws	84	0.730	8.0
13	Other Equipment	190	0.620	8.0
7	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '22

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '22

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .3

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	36.25	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Asphalt Off-Gas	0.04	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.00	0.10	0.00	0.00	0.00	0.00
Maximum lbs/day	80.67	280.28	369.51	0.00	10.72	10.52	0.20
Max lbs/day all phases	80.67	280.28	369.51	0.00	10.72	10.52	0.20

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '20
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 142593.75
 Building Volume Daily (cubic feet): 5415
 On-Road Truck Travel (VMT): 300

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '20
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '20
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '20
 SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Concrete/Industrial saws	84	0.730	8.0
13	Other Equipment	190	0.620	8.0
7	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '22

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '22

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .3

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.00272

Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 has been changed from off to on.

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Construction.urb
 Project Name: Phase 4 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: June, 2020
 Construction Duration: 24
 Total Land Use Area to be Developed: 2.9 acres
 Maximum Acreage Disturbed Per Day: 0.7 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 293204

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2020***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	2.27	-	2.27
Off-Road Diesel	2.38	15.46	19.52	-	0.62	0.62	0.00
On-Road Diesel	0.13	1.28	0.59	0.01	0.08	0.05	0.03
Worker Trips	0.02	0.02	0.56	0.00	0.00	0.00	0.00
Maximum lbs/day	2.53	16.76	20.67	0.01	2.97	0.67	2.30
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	7.00	-	7.00
Off-Road Diesel	4.31	28.04	35.40	-	1.12	1.12	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Maximum lbs/day	4.31	28.04	35.45	0.00	8.12	1.12	7.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	40.22	256.95	333.11	0.00	9.97	9.87	0.10
Max lbs/day all phases	40.22	256.95	333.11	0.01	16.87	9.87	7.00
*** 2021***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	40.22	256.95	333.11	0.00	9.97	9.87	0.10
Max lbs/day all phases	40.22	256.95	333.11	0.00	9.97	9.87	0.10

*** 2022***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	36.25	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Asphalt Off-Gas	0.04	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.00	0.10	0.00	0.00	0.00	0.00
Maximum lbs/day	80.67	280.28	369.51	0.00	10.72	10.52	0.20

Max lbs/day all phases 80.67 280.28 369.51 0.00 10.72 10.52 0.20

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '20
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 142593.75
 Building Volume Daily (cubic feet): 5415
 On-Road Truck Travel (VMT): 300
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '20
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '20
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '20
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Concrete/Industrial saws	84	0.730	8.0
13	Other Equipment	190	0.620	8.0
7	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '22
 SubPhase Architectural Coatings Duration: 2 months
 Start Month/Year for SubPhase Asphalt: May '22
 SubPhase Asphalt Duration: 1 months
 Acres to be Paved: .3
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	36.25	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Asphalt Off-Gas	0.04	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.00	0.10	0.00	0.00	0.00	0.00
Maximum lbs/day	80.67	280.28	369.51	0.00	10.72	10.52	0.20
Max lbs/day all phases	80.67	280.28	369.51	0.00	10.72	10.52	0.20

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '20
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 142593.75
 Building Volume Daily (cubic feet): 5415
 On-Road Truck Travel (VMT): 300
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '20
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '20
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '20
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Concrete/Industrial saws	84	0.730	8.0
13	Other Equipment	190	0.620	8.0
7	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '22
 SubPhase Architectural Coatings Duration: 2 months
 Start Month/Year for SubPhase Asphalt: May '22
 SubPhase Asphalt Duration: 1 months

Acres to be Paved: .3

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.00272
 Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 has been changed from off to on.

Phase 4 Construction (Mitigated)
(2020-2035)

Construction emissions were based on the following assumptions:

1. Start date: June 2020
2. Duration of construction: 24 months
3. Demolition: 9,503 square feet
4. Construction: 293,185 square feet
5. Grading: 2.92 acres (1.5 acres per acre of footprint area)
6. Asphalt Paving: 0.29 acres (10% of graded area)
7. Equivalent students: 3,187 (needed for URBEMIS2002 to generate proper area to be constructed)
8. Emulsified (aqueous fuel) is used as mitigation for off-road diesel equipment

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Construction.urb
Project Name: Phase 4 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2020 ***							
TOTALS (lbs/day, unmitigated)	40.22	256.95	333.11	0.01	16.87	9.87	7.00
TOTALS (lbs/day, mitigated)	40.22	220.99	333.11	0.01	7.16	3.66	3.50
*** 2021 ***							
TOTALS (lbs/day, unmitigated)	40.22	256.95	333.11	0.00	9.97	9.87	0.10
TOTALS (lbs/day, mitigated)	40.22	220.99	333.11	0.00	3.76	3.66	0.10
*** 2022 ***							
TOTALS (lbs/day, unmitigated)	80.67	280.28	369.51	0.00	10.72	10.52	0.20
TOTALS (lbs/day, mitigated)	80.67	241.07	369.51	0.00	4.11	3.91	0.20

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Construction.urb
Project Name: Phase 4 CSUN Construction
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2020 ***							
TOTALS (lbs/day, unmitigated)	40.22	256.95	333.11	0.01	16.87	9.87	7.00
TOTALS (lbs/day, mitigated)	40.22	220.99	333.11	0.01	7.16	3.66	3.50
*** 2021 ***							
TOTALS (lbs/day, unmitigated)	40.22	256.95	333.11	0.00	9.97	9.87	0.10
TOTALS (lbs/day, mitigated)	40.22	220.99	333.11	0.00	3.76	3.66	0.10
*** 2022 ***							
TOTALS (lbs/day, unmitigated)	80.67	280.28	369.51	0.00	10.72	10.52	0.20
TOTALS (lbs/day, mitigated)	80.67	241.07	369.51	0.00	4.11	3.91	0.20

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Construction.urb
 Project Name: Phase 4 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: June, 2020
 Construction Duration: 24
 Total Land Use Area to be Developed: 2.9 acres
 Maximum Acreage Disturbed Per Day: 0.7 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 293204

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2020***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	2.27	-	2.27
Off-Road Diesel	2.38	15.46	19.52	-	0.62	0.62	0.00
On-Road Diesel	0.13	1.28	0.59	0.01	0.08	0.05	0.03
Worker Trips	0.02	0.02	0.56	0.00	0.00	0.00	0.00
Maximum lbs/day	2.53	16.76	20.67	0.01	2.97	0.67	2.30
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	7.00	-	7.00
Off-Road Diesel	4.31	28.04	35.40	-	1.12	1.12	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Maximum lbs/day	4.31	28.04	35.45	0.00	8.12	1.12	7.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	40.22	256.95	333.11	0.00	9.97	9.87	0.10
Max lbs/day all phases	40.22	256.95	333.11	0.01	16.87	9.87	7.00
*** 2021***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	40.22	256.95	333.11	0.00	9.97	9.87	0.10
Max lbs/day all phases	40.22	256.95	333.11	0.00	9.97	9.87	0.10

*** 2022***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	36.25	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Asphalt Off-Gas	0.04	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.00	0.10	0.00	0.00	0.00	0.00
Maximum lbs/day	80.67	280.28	369.51	0.00	10.72	10.52	0.20
Max lbs/day all phases	80.67	280.28	369.51	0.00	10.72	10.52	0.20

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '20
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 142593.75
 Building Volume Daily (cubic feet): 5415
 On-Road Truck Travel (VMT): 300
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '20
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '20
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '20
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Concrete/Industrial saws	84	0.730	8.0
13	Other Equipment	190	0.620	8.0
7	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '22

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '22

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .3

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	40.06	220.90	330.80	-	3.65	3.65	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	36.25	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Asphalt Off-Gas	0.04	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	19.94	33.99	-	0.24	0.24	0.00
Asphalt On-Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.00	0.10	0.00	0.00	0.00	0.00
Maximum lbs/day	80.67	241.07	369.51	0.00	4.11	3.91	0.20
Max lbs/day all phases	80.67	241.07	369.51	0.00	4.11	3.91	0.20

Construction-Related Mitigation Measures

Phase 1: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)

Phase 1 - Demolition Assumptions
 Start Month/Year for Phase 1: Jun '20
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 142593.75
 Building Volume Daily (cubic feet): 5415
 On-Road Truck Travel (VMT): 300
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions
 Start Month/Year for Phase 2: Jul '20
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
 Start Month/Year for Phase 3: Sep '20
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '20
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Concrete/Industrial saws	84	0.730	8.0
13	Other Equipment	190	0.620	8.0
7	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '22
 SubPhase Architectural Coatings Duration: 2 months
 Start Month/Year for SubPhase Asphalt: May '22
 SubPhase Asphalt Duration: 1 months

Acres to be Paved: .3

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.00272

Phase 1 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Construction.urb
 Project Name: Phase 4 CSUN Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: June, 2020
 Construction Duration: 24
 Total Land Use Area to be Developed: 2.9 acres
 Maximum Acreage Disturbed Per Day: 0.7 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 293204

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2020***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	2.27	-	2.27
Off-Road Diesel	2.38	15.46	19.52	-	0.62	0.62	0.00
On-Road Diesel	0.13	1.28	0.59	0.01	0.08	0.05	0.03
Worker Trips	0.02	0.02	0.56	0.00	0.00	0.00	0.00
Maximum lbs/day	2.53	16.76	20.67	0.01	2.97	0.67	2.30
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	7.00	-	7.00
Off-Road Diesel	4.31	28.04	35.40	-	1.12	1.12	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Maximum lbs/day	4.31	28.04	35.45	0.00	8.12	1.12	7.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	40.22	256.95	333.11	0.00	9.97	9.87	0.10
Max lbs/day all phases	40.22	256.95	333.11	0.01	16.87	9.87	7.00
*** 2021***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	40.22	256.95	333.11	0.00	9.97	9.87	0.10
Max lbs/day all phases	40.22	256.95	333.11	0.00	9.97	9.87	0.10

*** 2022***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	40.06	256.86	330.80	-	9.86	9.86	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	36.25	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Asphalt Off-Gas	0.04	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.00	0.10	0.00	0.00	0.00	0.00
Maximum lbs/day	80.67	280.28	369.51	0.00	10.72	10.52	0.20
Max lbs/day all phases	80.67	280.28	369.51	0.00	10.72	10.52	0.20

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '20
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 142593.75
 Building Volume Daily (cubic feet): 5415
 On-Road Truck Travel (VMT): 300

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '20
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '20
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '20
 SubPhase Building Duration: 20.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Concrete/Industrial saws	84	0.730	8.0
13	Other Equipment	190	0.620	8.0
7	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '22

SubPhase Architectural Coatings Duration: 2 months

Start Month/Year for SubPhase Asphalt: May '22

SubPhase Asphalt Duration: 1 months

Acres to be Paved: .3

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	40.06	220.90	330.80	-	3.65	3.65	0.00
Bldg Const Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Arch Coatings Off-Gas	36.25	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.10	2.30	0.00	0.11	0.01	0.10
Asphalt Off-Gas	0.04	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	19.94	33.99	-	0.24	0.24	0.00
Asphalt On-Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.00	0.10	0.00	0.00	0.00	0.00
Maximum lbs/day	80.67	241.07	369.51	0.00	4.11	3.91	0.20
Max lbs/day all phases	80.67	241.07	369.51	0.00	4.11	3.91	0.20

Construction-Related Mitigation Measures

Phase 1: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 2: Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)
 Phase 3: Off-Road Diesel Exhaust: Use aqueous diesel fuel
 Percent Reduction(ROG 0.0% NOx 14.0% CO 0.0% SO2 0.0% PM10 63.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '20
 Phase 1 Duration: 1.2 months
 Building Volume Total (cubic feet): 142593.75
 Building Volume Daily (cubic feet): 5415
 On-Road Truck Travel (VMT): 300
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '20
 Phase 2 Duration: 2.4 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '20
 Phase 3 Duration: 20.4 months
 Start Month/Year for SubPhase Building: Sep '20
 SubPhase Building Duration: 20.4 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
7	Concrete/Industrial saws	84	0.730	8.0
13	Other Equipment	190	0.620	8.0
7	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '22
 SubPhase Architectural Coatings Duration: 2 months
 Start Month/Year for SubPhase Asphalt: May '22
 SubPhase Asphalt Duration: 1 months
 Acres to be Paved: .3

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.00272
Phase 1 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water Exposed Surfaces 2X Daily
has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use aqueous diesel fuel
has been changed from off to on.

**Phase 1 Operation
(2005-2009)**

Operational emissions were based on the following assumptions:

1. Target year: 2009
2. Students: 957

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN Operations Net.urb
Project Name: Phase 1 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES					
	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.89	0.85	1.38	0.00	0.00
OPERATIONAL (VEHICLE) EMISSION ESTIMATES					
	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	25.44	14.88	154.83	0.11	16.50
SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES					
	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	26.33	15.73	156.20	0.11	16.51

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN Operations Net.urb
Project Name: Phase 1 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.80	0.85	0.71	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	13.14	21.43	151.85	0.09	16.50

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	13.93	22.28	152.56	0.09	16.50

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN Operations Net.urb
Project Name: Phase 1 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.06	0.85	0.71	0	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.73	-	-	-	-
TOTALS(lbs/day,unmitigated)	0.80	0.85	0.71	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
University/college (4 yrs)	13.14	21.43	151.85	0.09	16.50
TOTAL EMISSIONS (lbs/day)	13.14	21.43	151.85	0.09	16.50

Includes correction for passby trips.
 Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
University/college (4 yrs)		2.14 trips/students	957.00	2,049.89
Sum of Total Trips				2,049.89
Total Vehicle Miles Traveled				10,883.91

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90	1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10	2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	75.00	25.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

University/college (4 yrs)	5.0	2.5	92.5
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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.

The landscape year changed from 2005 to 2009.

The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.011.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.

The operational emission year changed from 2005 to 2009.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 1 CSUN Operations Net.urb
Project Name: Phase 1 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.06	0.85	0.71	0	0.00
Hearth - No summer emissions					
Landscaping	0.10	0.00	0.66	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.73	-	-	-	-
TOTALS(lbs/day,unmitigated)	0.89	0.85	1.38	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
University/college (4 yrs)	25.44	14.88	154.83	0.11	16.50
TOTAL EMISSIONS (lbs/day)	25.44	14.88	154.83	0.11	16.50

Includes correction for passby trips.
 Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
University/college (4 yrs)		2.14 trips/students	957.00	2,049.89
Sum of Total Trips				2,049.89
Total Vehicle Miles Traveled				10,883.91

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90	1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10	2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	75.00	25.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

University/college (4 yrs)	5.0	2.5	92.5
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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.

The landscape year changed from 2005 to 2009.

The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.011.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.

The operational emission year changed from 2005 to 2009.

**Phase 2 Operation
(2010-2014)**

Operational emissions were based on the following assumptions:

1. Target year: 2015 (The closest selectable year allowed by URBEMIS2002)
2. Students: 4,288

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Operations Net.urb
Project Name: Phase 2 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES					
	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	3.65	3.82	3.83	0.00	0.01
OPERATIONAL (VEHICLE) EMISSION ESTIMATES					
	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	76.27	37.07	391.28	0.48	73.78
SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES					
	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	79.92	40.90	395.11	0.48	73.79

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Operations Net.urb
Project Name: Phase 2 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	3.56	3.81	3.20	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	35.10	53.04	379.53	0.38	73.78

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	38.67	56.85	382.73	0.38	73.79

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Operations Net.urb
Project Name: Phase 2 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.28	3.81	3.20	0	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	3.29	-	-	-	-
TOTALS(lbs/day,unmitigated)	3.56	3.81	3.20	0.00	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
University/college (4 yrs)	35.10	53.04	379.53	0.38	73.78
TOTAL EMISSIONS (lbs/day)	35.10	53.04	379.53	0.38	73.78

Includes correction for passby trips.
 Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2015 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
University/college (4 yrs)		2.14 trips/students	4,288.00	9,184.90
Sum of Total Trips				9,184.90
Total Vehicle Miles Traveled				48,767.21

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

University/college (4 yrs)	5.0	2.5	92.5
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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.

The landscape year changed from 2005 to 2014.

The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.011.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.

The operational emission year changed from 2005 to 2015.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 2 CSUN Operations Net.urb
Project Name: Phase 2 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.28	3.81	3.20	0	0.01
Hearth - No summer emissions					
Landscaping	0.09	0.01	0.63	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	3.29	-	-	-	-
TOTALS(lbs/day,unmitigated)	3.65	3.82	3.83	0.00	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
University/college (4 yrs)	76.27	37.07	391.28	0.48	73.78
TOTAL EMISSIONS (lbs/day)	76.27	37.07	391.28	0.48	73.78

Includes correction for passby trips.
 Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2015 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
University/college (4 yrs)		2.14 trips/students	4,288.00	9,184.90
Sum of Total Trips				9,184.90
Total Vehicle Miles Traveled				48,767.21

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
University/college (4 yrs)				5.0	2.5	92.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
 The landscape year changed from 2005 to 2014.
 The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.011.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
 The operational emission year changed from 2005 to 2015.

**Phase 3 Operation
(2015-2019)**

Operational emissions were based on the following assumptions:

1. Target year: 2020 (The closest selectable year allowed by URBEMIS2002)
2. Students: 5,283

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Operations Net.urb
Project Name: Phase 3 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	4.48	4.71	4.58	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	73.06	31.20	352.72	0.59	90.83

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	77.54	35.91	357.29	0.59	90.83

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Operations Net.urb
Project Name: Phase 3 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	4.39	4.70	3.95	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	32.29	44.75	340.81	0.47	90.83

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	36.68	49.45	344.76	0.47	90.83

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Operations Net.urb
Project Name: Phase 3 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.34	4.70	3.95	0	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	4.05	-	-	-	-
TOTALS(lbs/day,unmitigated)	4.39	4.70	3.95	0.00	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
University/college (4 yrs)	32.29	44.75	340.81	0.47	90.83
TOTAL EMISSIONS (lbs/day)	32.29	44.75	340.81	0.47	90.83

Includes correction for passby trips.
 Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2020 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
University/college (4 yrs)		2.14 trips/students	5,283.00	11,316.19
Sum of Total Trips				11,316.19
Total Vehicle Miles Traveled				60,083.29

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

University/college (4 yrs)	5.0	2.5	92.5
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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.

The landscape year changed from 2005 to 2019.

The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.011.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.

The operational emission year changed from 2005 to 2020.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 3 CSUN Operations Net.urb
Project Name: Phase 3 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.34	4.70	3.95	0	0.01
Hearth - No summer emissions					
Landscaping	0.09	0.01	0.63	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	4.05	-	-	-	-
TOTALS(lbs/day,unmitigated)	4.48	4.71	4.58	0.00	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
University/college (4 yrs)	73.06	31.20	352.72	0.59	90.83
TOTAL EMISSIONS (lbs/day)	73.06	31.20	352.72	0.59	90.83

Includes correction for passby trips.
 Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2020 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
University/college (4 yrs)		2.14 trips/students	5,283.00	11,316.19
Sum of Total Trips				11,316.19
Total Vehicle Miles Traveled				60,083.29

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
University/college (4 yrs)				5.0	2.5	92.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
 The landscape year changed from 2005 to 2019.
 The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.011.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
 The operational emission year changed from 2005 to 2020.

**Phase 4 Operation
(2020-2035)**

Operational emissions were based on the following assumptions:

1. Target year: 2035
2. Students: 10,527

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Operations Net.urb
Project Name: Phase 4 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	8.84	9.37	8.50	0.00	0.02

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	66.09	26.90	353.70	1.04	180.67

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	74.93	36.27	362.20	1.04	180.69

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Operations Net.urb
Project Name: Phase 4 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES					
	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	8.75	9.36	7.86	0.00	0.02
OPERATIONAL (VEHICLE) EMISSION ESTIMATES					
	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	34.62	38.33	337.99	0.93	180.67
SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES					
	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	43.37	47.69	345.86	0.93	180.69

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Operations Net.urb
Project Name: Phase 4 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.68	9.36	7.86	0	0.02
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	8.07	-	-	-	-
TOTALS(lbs/day,unmitigated)	8.75	9.36	7.86	0.00	0.02

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
University/college (4 yrs)	34.62	38.33	337.99	0.93	180.67
TOTAL EMISSIONS (lbs/day)	34.62	38.33	337.99	0.93	180.67

Includes correction for passby trips.
 Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2035 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
University/college (4 yrs)		2.14 trips/students	10,527.00	22,548.83
Sum of Total Trips				22,548.83
Total Vehicle Miles Traveled				119,723.03

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	51.20	0.00	100.00	0.00
Light Truck < 3,750 lbs	16.20	0.00	100.00	0.00
Light Truck 3,751- 5,750	17.00	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.70	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	0.90	0.00	77.80	22.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.70	35.30	64.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	3.10	0.00	90.30	9.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

University/college (4 yrs)	5.0	2.5	92.5
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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.

The landscape year changed from 2005 to 2020.

The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to .011.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.

The operational emission year changed from 2005 to 2035.

URBEMIS 2002 For Windows 8.7.0

File Name: \\Atlas\Loomis\Projects\750-01 CSUN Master Plan\Phase 4 CSUN Operations Net.urb
Project Name: Phase 4 CSUN Operations
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.68	9.36	7.86	0	0.02
Hearth - No summer emissions					
Landscaping	0.09	0.01	0.63	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	8.07	-	-	-	-
TOTALS(lbs/day,unmitigated)	8.84	9.37	8.50	0.00	0.02

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
University/college (4 yrs)	66.09	26.90	353.70	1.04	180.67
TOTAL EMISSIONS (lbs/day)	66.09	26.90	353.70	1.04	180.67

Includes correction for passby trips.
 Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2035 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
University/college (4 yrs)		2.14 trips/students	10,527.00	22,548.83
Sum of Total Trips				22,548.83
Total Vehicle Miles Traveled				119,723.03

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	51.20	0.00	100.00	0.00
Light Truck < 3,750 lbs	16.20	0.00	100.00	0.00
Light Truck 3,751- 5,750	17.00	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.70	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	0.90	0.00	77.80	22.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.70	35.30	64.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	3.10	0.00	90.30	9.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
University/college (4 yrs)				5.0	2.5	92.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
 The landscape year changed from 2005 to 2020.
 The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to .011.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
 The operational emission year changed from 2005 to 2035.

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Amigo Ave./SR-118 WB Ramps and Rinaldi St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

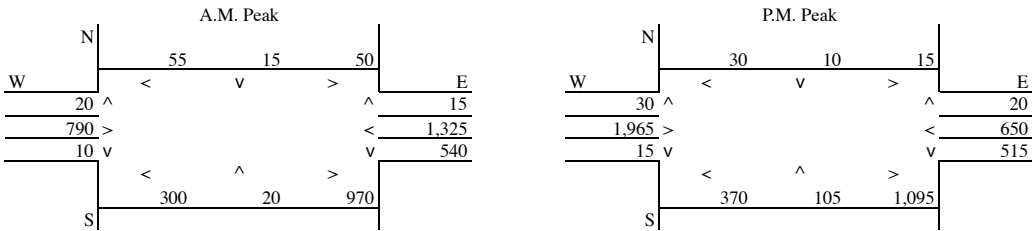
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Amigo Ave./SR-118 WB Ramps	AT GRADE	2	5	5
East-West Roadway: Rinaldi St.	AT GRADE	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,855	N-S Road	2,110
E-W Road	3,690	E-W Road	4,260
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor	Emission	÷	100,000
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	2.7	2.2	1.7	*	1,855	*	1.49	÷
E-W Road	7.0	5.4	3.8	*	3,690	*	1.49	÷
P.M. Peak Hour								
N-S Road	2.7	2.2	1.7	*	2,110	*	1.49	÷
E-W Road	7.0	5.4	3.8	*	4,260	*	1.49	÷

TOTAL CO CONCENTRATIONS (ppm)

	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
25 Feet from Roadway Edge	7.1	7.1	5.9
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Reseda Blvd. and Rinaldi St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

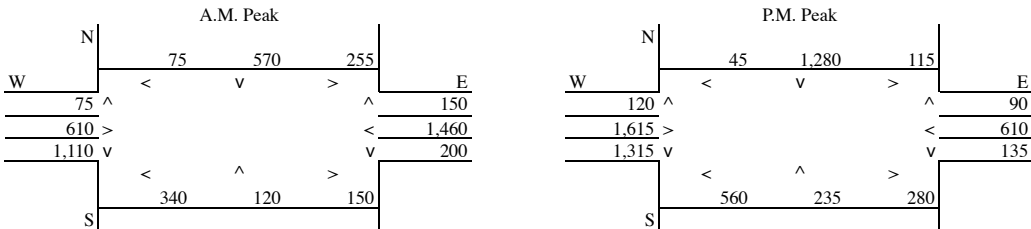
Roadway Type	Reseda Blvd. Rinaldi St.	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Reseda Blvd.	4	5	5
East-West Roadway:	Rinaldi St.	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,490	N-S Road	3,805
E-W Road	3,670	E-W Road	4,265
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	2,490	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	3,670	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	3,805	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	4,265	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.1	7.2	5.9
50 Feet from Roadway Edge	7.0	7.1	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Balboa Blvd. and SR-118 WB Ramps
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

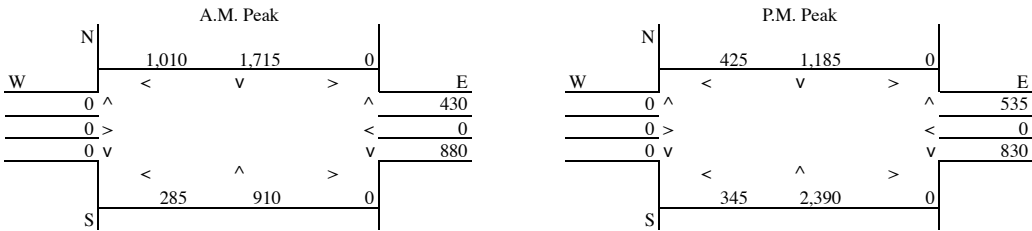
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Balboa Blvd.	AT GRADE	6	5	5
East-West Roadway: SR-118 WB Ramps	AT GRADE	0	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	4,065	N-S Road	4,750
E-W Road	1,310	E-W Road	1,365
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	6.1	4.9	3.5	*	4,065	*	1.49	÷ 100,000
E-W Road	0.0	0.0	0.0	*	1,310	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	6.1	4.9	3.5	*	4,750	*	1.49	÷ 100,000
E-W Road	0.0	0.0	0.0	*	1,365	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.0	5.8
50 Feet from Roadway Edge	6.9	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Balboa Blvd. and SR-118 EB Ramps
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

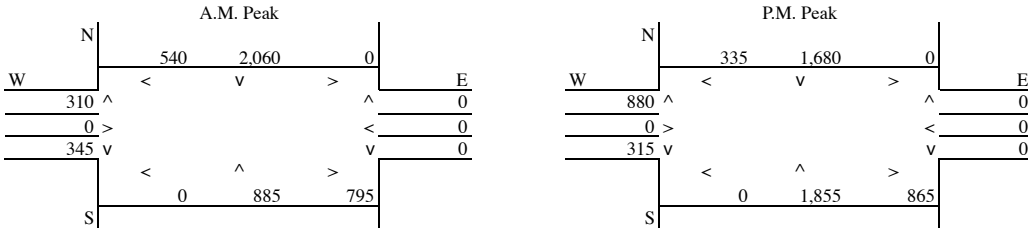
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Balboa Blvd.	AT GRADE	4	5	5
East-West Roadway: SR-118 EB Ramps	AT GRADE	0	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	4,085	N-S Road	4,750
E-W Road	1,195	E-W Road	1,530
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	7.0	5.4	3.8	*	4,085	*	1.49	÷ 100,000
E-W Road	0.0	0.0	0.0	*	1,195	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	7.0	5.4	3.8	*	4,750	*	1.49	÷ 100,000
E-W Road	0.0	0.0	0.0	*	1,530	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.1	5.8
50 Feet from Roadway Edge	6.9	7.0	5.8
100 Feet from Roadway Edge	6.8	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Reseda Blvd. and Chatsworth St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

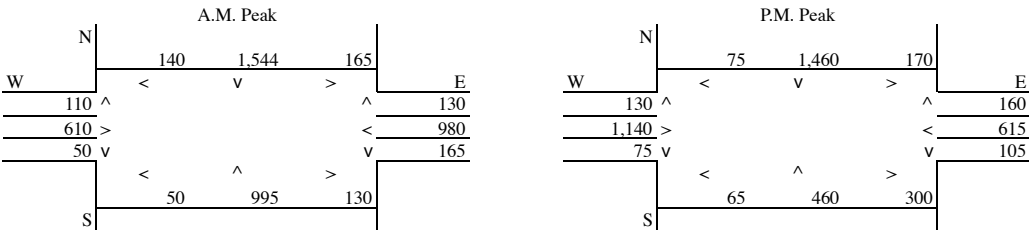
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Reseda Blvd.	4	5	5
East-West Roadway:	Chatsworth St.	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,084	N-S Road	2,465
E-W Road	2,180	E-W Road	2,490
Primary Road =	N-S Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	7.0	5.4	3.8	*	3,084	*	1.49	÷	100,000
E-W Road	2.6	2.2	1.7	*	2,180	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	2,465	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	2,490	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.0	5.8
50 Feet from Roadway Edge	6.9	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Zelzah Ave. and Chatsworth St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

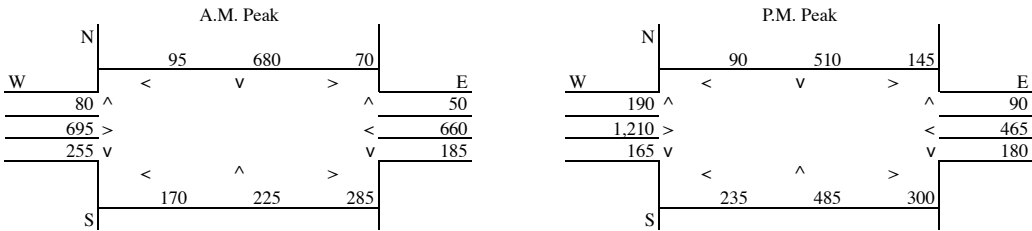
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Zelzah Ave.	AT GRADE	2	5	5
East-West Roadway: Chatsworth St.	AT GRADE	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,800	N-S Road	1,875
E-W Road	1,955	E-W Road	2,390
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	2.7	2.2	1.7	*	1,800	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	1,955	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	2.7	2.2	1.7	*	1,875	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	2,390	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	6.9	6.9	5.7
50 Feet from Roadway Edge	6.8	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.6

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Balboa Blvd. and Chatsworth St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

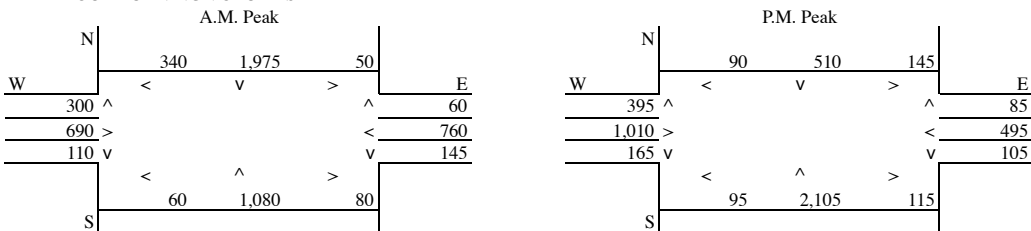
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Balboa Blvd.	AT GRADE	6	5	5
East-West Roadway: Chatsworth St.	AT GRADE	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,805	N-S Road	3,330
E-W Road	2,260	E-W Road	2,250
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	6.1	4.9	3.5	*	3,805	*	1.49	÷ 100,000
E-W Road	2.6	2.2	1.7	*	2,260	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	6.1	4.9	3.5	*	3,330	*	1.49	÷ 100,000
E-W Road	2.6	2.2	1.7	*	2,250	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.0	5.8
50 Feet from Roadway Edge	7.0	6.9	5.7
100 Feet from Roadway Edge	6.9	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Reseda Blvd. and Devonshire St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

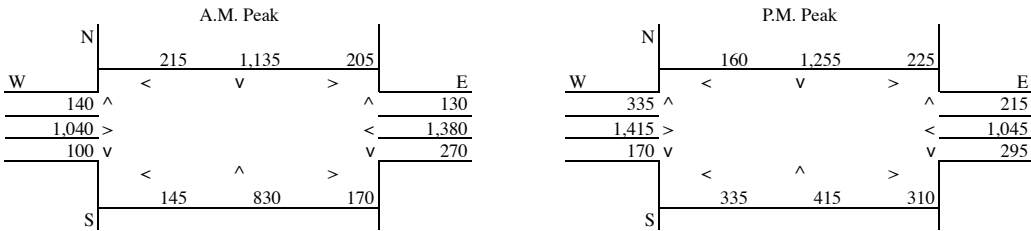
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Reseda Blvd.	AT GRADE	6	5	5
East-West Roadway: Devonshire St.	AT GRADE	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,655	N-S Road	2,780
E-W Road	3,195	E-W Road	3,505
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	2.3	2.0	1.7	*	2,655	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	3,195	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	2.3	2.0	1.7	*	2,780	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	3,505	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.1	5.8
50 Feet from Roadway Edge	6.9	7.0	5.8
100 Feet from Roadway Edge	6.8	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Lindley Ave. and Devonshire St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

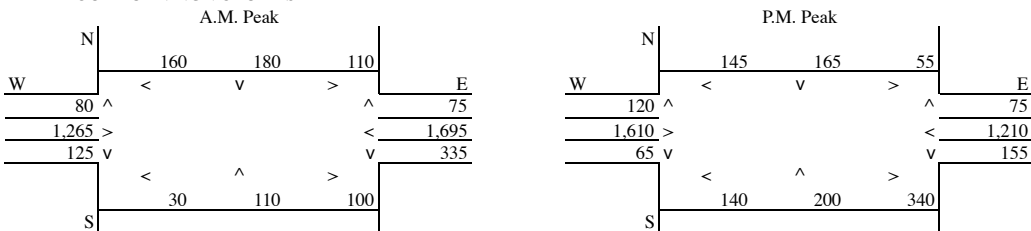
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Lindley Ave.	AT GRADE	2	5	5
East-West Roadway: Devonshire St.	AT GRADE	2	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	880	N-S Road	1,065
E-W Road	3,580	E-W Road	3,445
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	2.7	2.2	1.7	*	880	*	1.49	÷	100,000
E-W Road	7.6	5.7	4.0	*	3,580	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	2.7	2.2	1.7	*	1,065	*	1.49	÷	100,000
E-W Road	7.6	5.7	4.0	*	3,445	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.0	5.8
50 Feet from Roadway Edge	6.9	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Zelzah Ave. and Devonshire St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

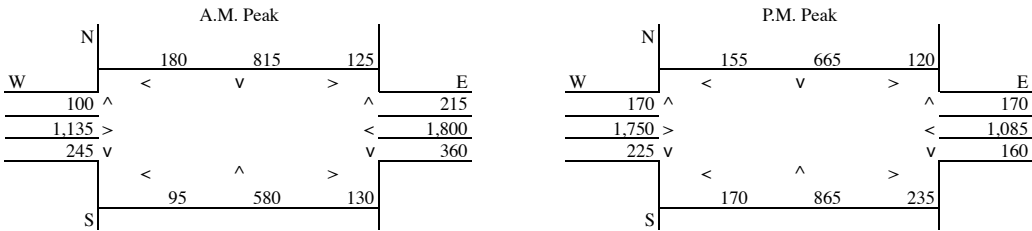
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Zelzah Ave.	4	5	5
East-West Roadway:	Devonshire St.	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,225	N-S Road	2,320
E-W Road	3,765	E-W Road	3,555
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	2,225	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	3,765	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	2,320	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	3,555	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.1	7.1	5.8
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Balboa Blvd. and Devonshire St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

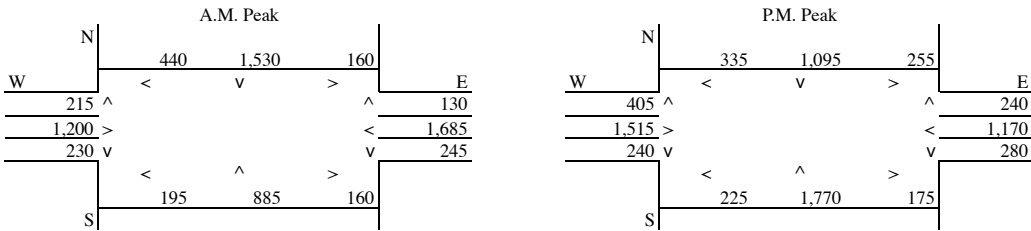
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Balboa Blvd.	AT GRADE	6	5	5
East-West Roadway: Devonshire St.	AT GRADE	6	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,360	N-S Road	4,100
E-W Road	3,965	E-W Road	3,890
Primary Road = E-W Road		Primary Road = N-S Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	2.3	2.0	1.7	*	3,360	*	1.49	÷	100,000
E-W Road	6.1	4.9	3.5	*	3,965	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	6.1	4.9	3.5	*	4,100	*	1.49	÷	100,000
E-W Road	2.3	2.0	1.7	*	3,890	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
25 Feet from Roadway Edge	7.1	7.1	5.9
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Woodley Ave. and Devonshire St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

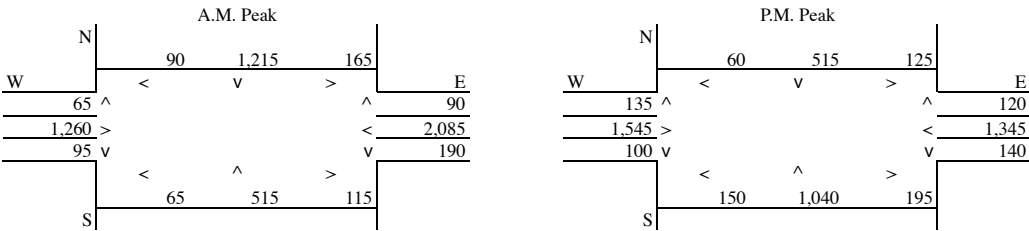
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Woodley Ave.	4	5	5
East-West Roadway:	Devonshire St.	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,195	N-S Road	2,140
E-W Road	3,905	E-W Road	3,470
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	2,195	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	3,905	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	2,140	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	3,470	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.1	7.0	5.8
50 Feet from Roadway Edge	7.0	6.9	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: I-405 SB Ramps/Blucher Ave. and Devonshire St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

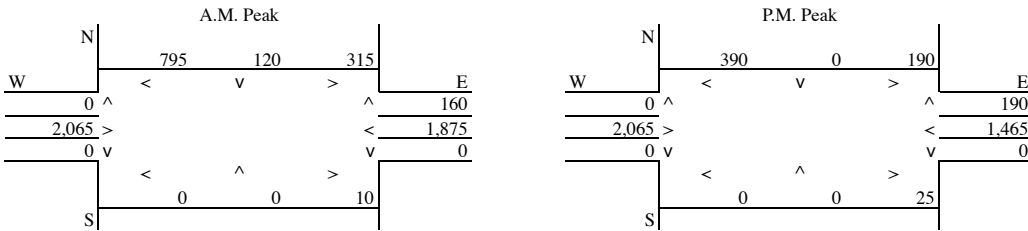
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: I-405 SB Ramps/Blucher Ave.	AT GRADE	0	5	5
East-West Roadway: Devonshire St.	AT GRADE	6	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,390	N-S Road	770
E-W Road	4,735	E-W Road	3,935
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	0.0	0.0	0.0	*	1,390	*	1.49	÷ 100,000
E-W Road	6.1	4.9	3.5	*	4,735	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	0.0	0.0	0.0	*	770	*	1.49	÷ 100,000
E-W Road	6.1	4.9	3.5	*	3,935	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
25 Feet from Roadway Edge	7.0	7.0	5.8
50 Feet from Roadway Edge	6.9	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Tampa Ave. and Lassen St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

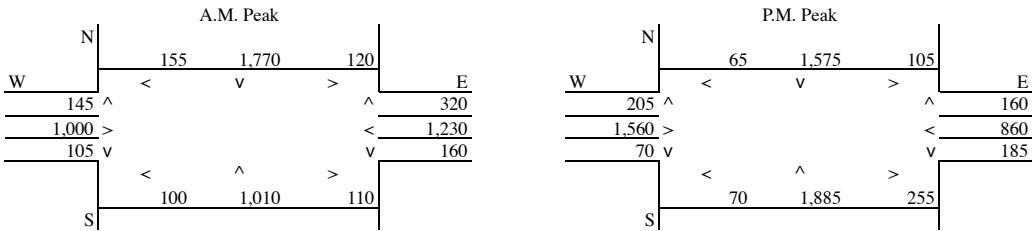
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Tampa Ave.	AT GRADE	6	5	5
East-West Roadway: Lassen St.	AT GRADE	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,520	N-S Road	4,040
E-W Road	2,940	E-W Road	3,125
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor
	25 Feet	50 Feet	100 Feet		
A.M. Peak Hour					
N-S Road	6.1	4.9	3.5	*	3,520
E-W Road	2.6	2.2	1.7	*	2,940
P.M. Peak Hour					
N-S Road	6.1	4.9	3.5	*	4,040
E-W Road	2.6	2.2	1.7	*	3,125

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.1	5.8
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Wilbur Ave. and Lassen St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

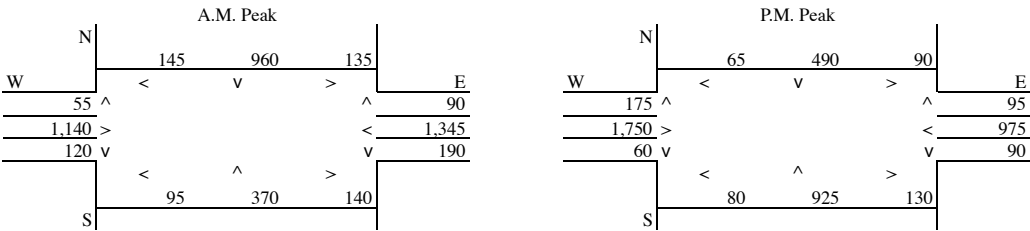
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Wilbur Ave.	4	5	5
East-West Roadway:	Lassen St.	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,875	N-S Road	1,840
E-W Road	3,040	E-W Road	3,130
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	2.6	2.2	1.7	*	1,875	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	3,040	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	2.6	2.2	1.7	*	1,840	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	3,130	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.0	5.8
50 Feet from Roadway Edge	6.9	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Reseda Blvd. and Lassen St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

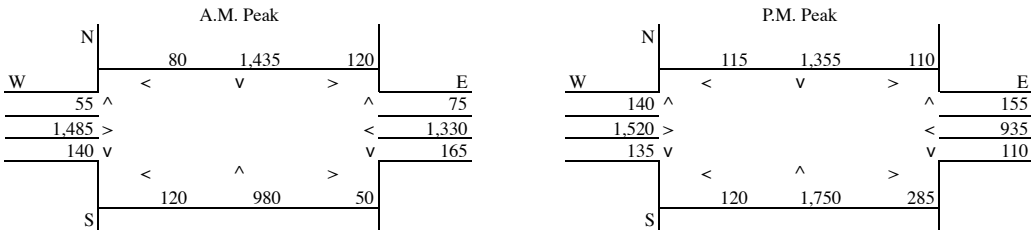
Roadway Type	Reseda Blvd. Lassen St.	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Reseda Blvd.	4	5	5
East-West Roadway:	Lassen St.	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,890	N-S Road	3,755
E-W Road	3,225	E-W Road	3,115
Primary Road =	E-W Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	2,890	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	3,225	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	7.0	5.4	3.8	*	3,755	*	1.49	÷	100,000
E-W Road	2.6	2.2	1.7	*	3,115	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.1	5.9
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Lindley Ave. and Lassen St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

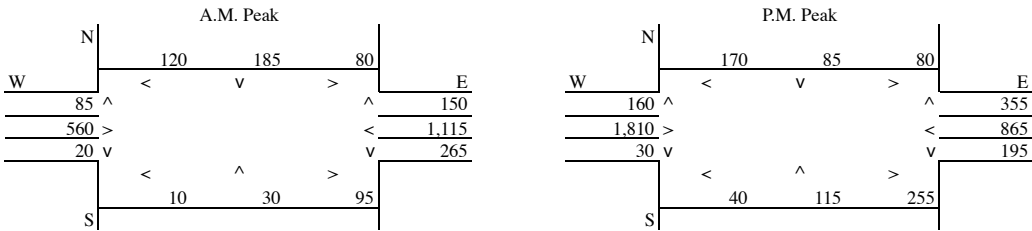
Roadway Type	Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Lindley Ave.	AT GRADE	2	5	5
East-West Roadway: Lassen St.	AT GRADE	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	650	N-S Road	965
E-W Road	2,265	E-W Road	3,560
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	2.7	2.2	1.7	*	650	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	2,265	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	2.7	2.2	1.7	*	965	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	3,560	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	6.9	7.0	5.8
50 Feet from Roadway Edge	6.8	6.9	5.7
100 Feet from Roadway Edge	6.7	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Zelzah Ave. and Lassen St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

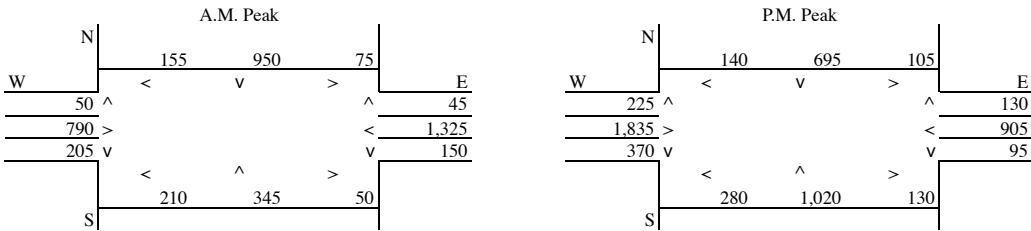
Roadway Type	Zelzah Ave. Lassen St.	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Zelzah Ave.	4	5	5
East-West Roadway:	Lassen St.	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,910	N-S Road	2,590
E-W Road	2,735	E-W Road	3,755
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	2.6	2.2	1.7	*	1,910	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	2,735	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	2.6	2.2	1.7	*	2,590	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	3,755	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.1	5.8
50 Feet from Roadway Edge	6.9	7.0	5.8
100 Feet from Roadway Edge	6.8	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Balboa Blvd. and Lassen St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

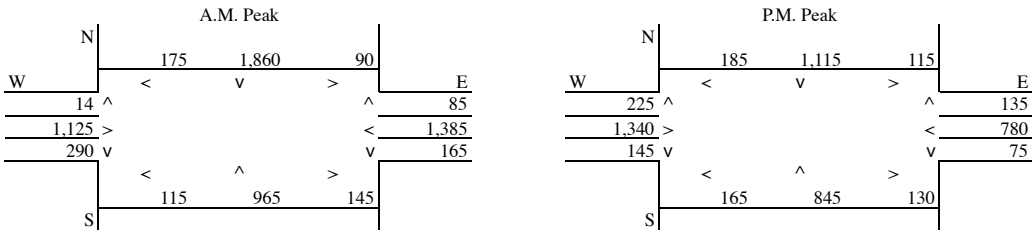
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Balboa Blvd.	AT GRADE	6	5	5
East-West Roadway: Lassen St.	AT GRADE	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,540	N-S Road	2,620
E-W Road	3,104	E-W Road	2,840
Primary Road =	N-S Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	6.1	4.9	3.5	*	3,540	*	1.49	÷	100,000
E-W Road	2.6	2.2	1.7	*	3,104	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	2.3	2.0	1.7	*	2,620	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	2,840	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.0	5.8
50 Feet from Roadway Edge	7.0	6.9	5.8
100 Feet from Roadway Edge	6.9	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Tampa Ave. and Plummer St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

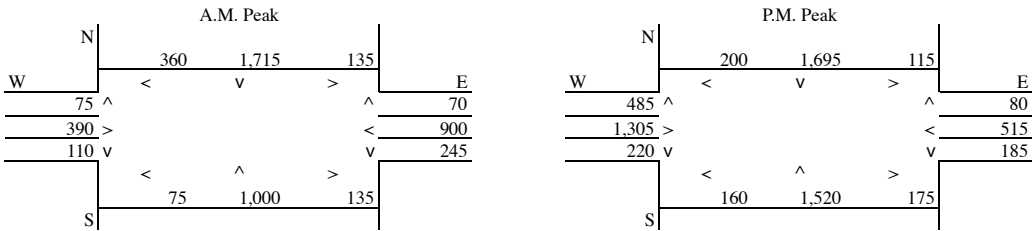
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Tampa Ave.	AT GRADE	6	5	5
East-West Roadway: Plummer St.	AT GRADE	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,355	N-S Road	4,095
E-W Road	1,910	E-W Road	2,885
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	6.1	4.9	3.5	*	3,355	*	1.49	÷	100,000
E-W Road	2.6	2.2	1.7	*	1,910	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	6.1	4.9	3.5	*	4,095	*	1.49	÷	100,000
E-W Road	2.6	2.2	1.7	*	2,885	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.1	5.8
50 Feet from Roadway Edge	6.9	7.0	5.8
100 Feet from Roadway Edge	6.8	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Reseda Blvd. and Plummer St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

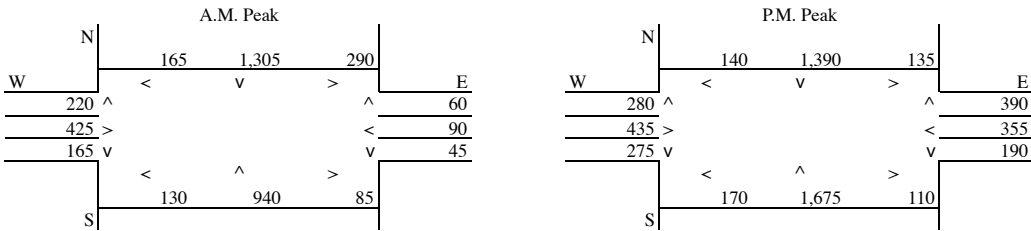
Roadway Type	Reseda Blvd. Plummer St.	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Reseda Blvd.	4	5	5
East-West Roadway:	Plummer St.	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,980	N-S Road	4,010
E-W Road	1,195	E-W Road	1,655
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	7.0	5.4	3.8	*	2,980	*	1.49	÷	100,000
E-W Road	2.6	2.2	1.7	*	1,195	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	7.0	5.4	3.8	*	4,010	*	1.49	÷	100,000
E-W Road	2.6	2.2	1.7	*	1,655	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.1	5.8
50 Feet from Roadway Edge	6.9	7.0	5.8
100 Feet from Roadway Edge	6.8	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Zelzah Ave. and Plummer St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

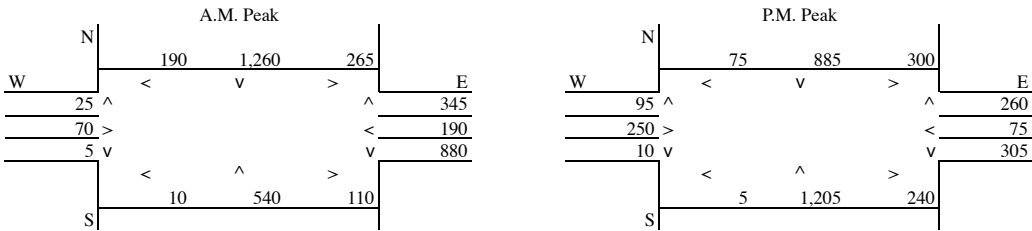
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Zelzah Ave.	AT GRADE	2	5	5
East-West Roadway: Plummer St.	AT GRADE	2	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,805	N-S Road	2,820
E-W Road	1,860	E-W Road	1,430
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor	Emission	÷	100,000	
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	7.6	5.7	4.0	*	2,805	*	1.49	÷	100,000
E-W Road	2.7	2.2	1.7	*	1,860	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	7.6	5.7	4.0	*	2,820	*	1.49	÷	100,000
E-W Road	2.7	2.2	1.7	*	1,430	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
25 Feet from Roadway Edge	7.0	7.0	5.8
50 Feet from Roadway Edge	6.9	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: White Oak Ave. and Plummer St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

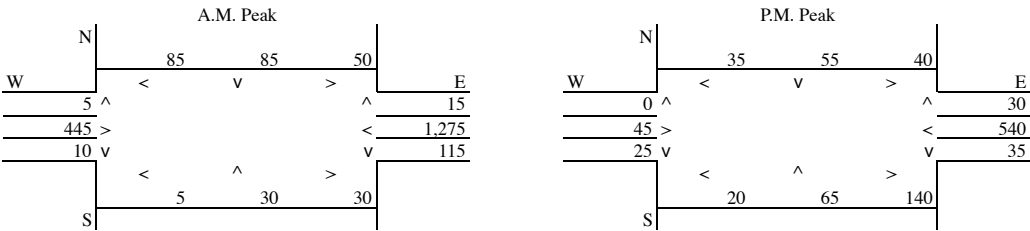
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: White Oak Ave.	AT GRADE	2	5	5
East-West Roadway: Plummer St.	AT GRADE	2	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	275	N-S Road	340
E-W Road	1,930	E-W Road	830
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	2.7	2.2	1.7	*	275	*	1.49	÷ 100,000
E-W Road	7.6	5.7	4.0	*	1,930	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	2.7	2.2	1.7	*	340	*	1.49	÷ 100,000
E-W Road	7.6	5.7	4.0	*	830	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	6.8	6.7	5.7
50 Feet from Roadway Edge	6.8	6.7	5.6
100 Feet from Roadway Edge	6.7	6.7	5.6

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Balboa Blvd.and Plummer St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

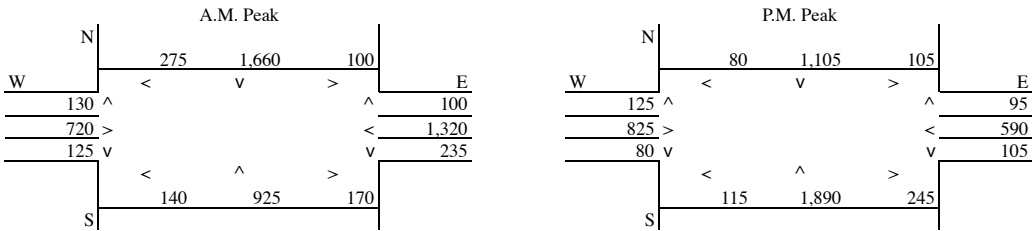
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Balboa Blvd.	AT GRADE	6	5	5
East-West Roadway: Plummer St.	AT GRADE	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,255	N-S Road	3,540
E-W Road	2,710	E-W Road	1,965
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	6.1	4.9	3.5	*	3,255	*	1.49	÷	100,000
E-W Road	2.6	2.2	1.7	*	2,710	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	6.1	4.9	3.5	*	3,540	*	1.49	÷	100,000
E-W Road	2.6	2.2	1.7	*	1,965	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
25 Feet from Roadway Edge	7.0	7.0	5.8
50 Feet from Roadway Edge	6.9	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Reseda Blvd.and Prairie St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

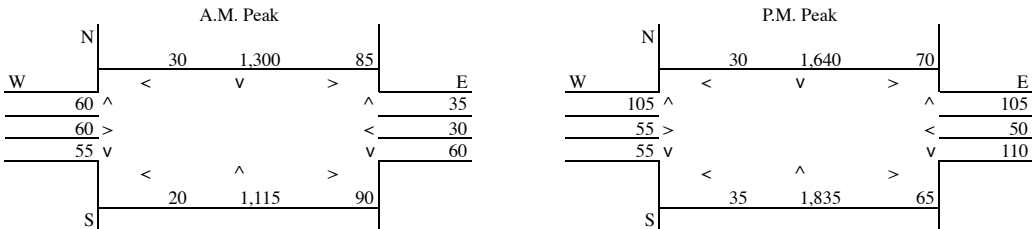
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Reseda Blvd.	AT GRADE	4	5	5
East-West Roadway: Prairie St.	AT GRADE	2	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,640	N-S Road	3,785
E-W Road	360	E-W Road	455
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	7.0	5.4	3.8	*	2,640	*	1.49	÷	100,000
E-W Road	2.7	2.2	1.7	*	360	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	7.0	5.4	3.8	*	3,785	*	1.49	÷	100,000
E-W Road	2.7	2.2	1.7	*	455	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	6.9	7.0	5.8
50 Feet from Roadway Edge	6.8	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Zelzah Ave. and Prairie St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

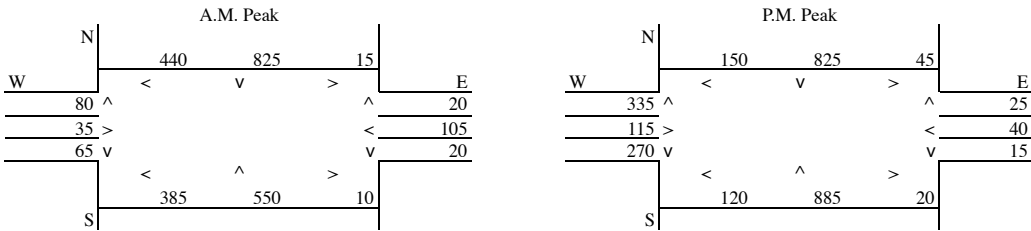
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Zelzah Ave.	AT GRADE	4	5	5
East-West Roadway: Prairie St.	AT GRADE	2	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,930	N-S Road	2,265
E-W Road	1,110	E-W Road	1,030
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			*	Traffic Volume	*	Emission Factor		
	25 Feet	50 Feet	100 Feet				÷	÷	÷
A.M. Peak Hour									
N-S Road	7.0	5.4	3.8	*	1,930	*	1.49	÷	100,000
E-W Road	2.7	2.2	1.7	*	1,110	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	7.0	5.4	3.8	*	2,265	*	1.49	÷	100,000
E-W Road	2.7	2.2	1.7	*	1,030	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	6.8	6.9	5.7
50 Feet from Roadway Edge	6.8	6.8	5.7
100 Feet from Roadway Edge	6.7	6.8	5.6

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Tampa Ave. and Nordhoff St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

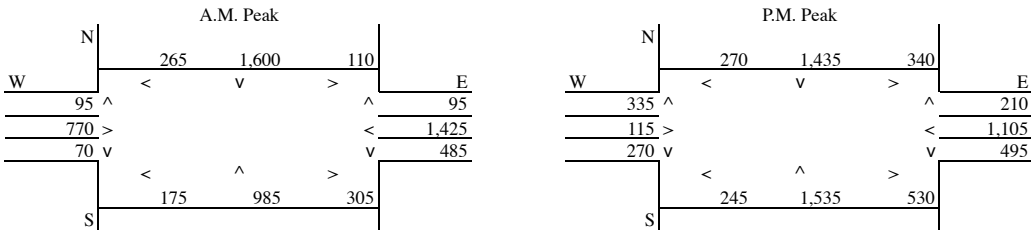
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Tampa Ave.	AT GRADE	6	5	5
East-West Roadway: Nordhoff St.	AT GRADE	6	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,620	N-S Road	4,510
E-W Road	3,190	E-W Road	2,795
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	6.1	4.9	3.5	*	3,620	*	1.49	÷ 100,000
E-W Road	2.3	2.0	1.7	*	3,190	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	6.1	4.9	3.5	*	4,510	*	1.49	÷ 100,000
E-W Road	2.3	2.0	1.7	*	2,795	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.1	5.9
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Reseda Blvd. and Nordhoff St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

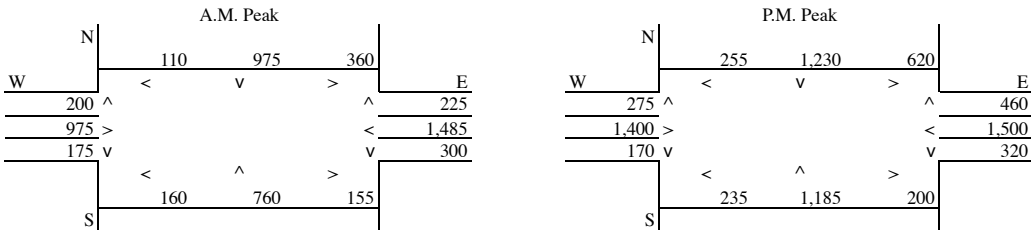
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Tampa Ave.	AT GRADE	4	5	5
East-West Roadway: Nordhoff St.	AT GRADE	6	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,630	N-S Road	4,025
E-W Road	3,500	E-W Road	4,500
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	2.6	2.2	1.7	*	2,630	*	1.49	÷ 100,000
E-W Road	6.1	4.9	3.5	*	3,500	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	2.6	2.2	1.7	*	4,025	*	1.49	÷ 100,000
E-W Road	6.1	4.9	3.5	*	4,500	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.2	5.9
50 Feet from Roadway Edge	6.9	7.1	5.8
100 Feet from Roadway Edge	6.8	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Darby Ave. and Nordhoff St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

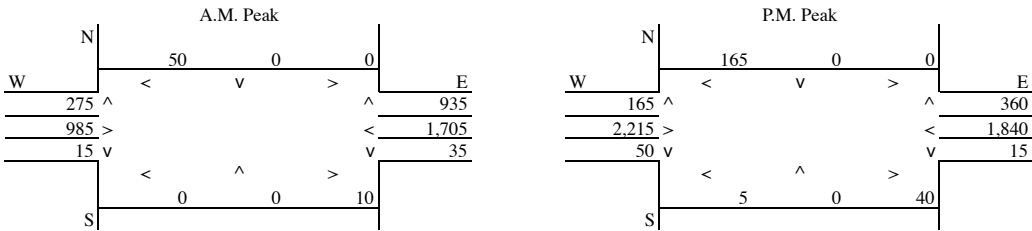
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Darby Ave.	0	5	5
East-West Roadway:	Nordhoff St.	6	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,260	N-S Road	690
E-W Road	3,670	E-W Road	4,470
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	0.0	0.0	0.0	*	1,260	*	1.49	÷ 100,000
E-W Road	6.1	4.9	3.5	*	3,670	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	0.0	0.0	0.0	*	690	*	1.49	÷ 100,000
E-W Road	6.1	4.9	3.5	*	4,470	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
25 Feet from Roadway Edge	6.9	7.0	5.8
50 Feet from Roadway Edge	6.9	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Lindley Ave. and Nordhoff St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

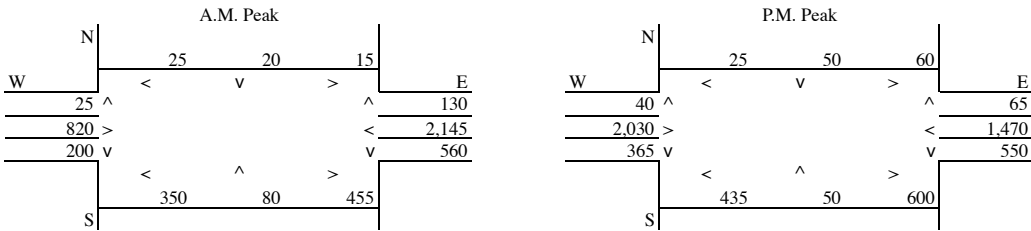
Roadway Type	Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Lindley Ave.	AT GRADE	2	5	5
East-West Roadway: Nordhoff St.	AT GRADE	6	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,665	N-S Road	2,050
E-W Road	4,125	E-W Road	4,775
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor	
	25 Feet	50 Feet	100 Feet			
A.M. Peak Hour						
N-S Road	2.7	2.2	1.7	*	1,665	1.49 ÷ 100,000
E-W Road	6.1	4.9	3.5	*	4,125	1.49 ÷ 100,000
P.M. Peak Hour						
N-S Road	2.7	2.2	1.7	*	2,050	1.49 ÷ 100,000
E-W Road	6.1	4.9	3.5	*	4,775	1.49 ÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.1	5.9
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Zelzah Ave. and Nordhoff St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

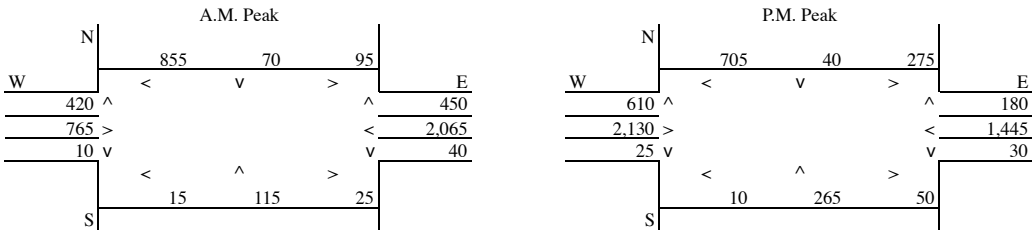
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Zelzah Ave.	2	5	5
East-West Roadway:	Nordhoff St.	6	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,005	N-S Road	2,075
E-W Road	4,130	E-W Road	4,925
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	2.7	2.2	1.7	*	2,005	*	1.49	÷	100,000
E-W Road	6.1	4.9	3.5	*	4,130	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	2.7	2.2	1.7	*	2,075	*	1.49	÷	100,000
E-W Road	6.1	4.9	3.5	*	4,925	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.1	7.1	5.9
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Balboa St. and Nordhoff St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

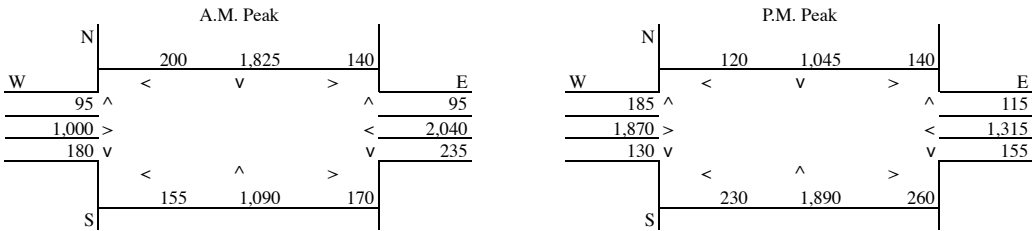
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Balboa St.	AT GRADE	6	5	5
East-West Roadway: Nordhoff St.	AT GRADE	6	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,655	N-S Road	3,710
E-W Road	3,680	E-W Road	3,855
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	2.3	2.0	1.7	*	3,655	*	1.49	÷	100,000
E-W Road	6.1	4.9	3.5	*	3,680	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	2.3	2.0	1.7	*	3,710	*	1.49	÷	100,000
E-W Road	6.1	4.9	3.5	*	3,855	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
25 Feet from Roadway Edge	7.1	7.1	5.8
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Woodley Ave. and Nordhoff St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

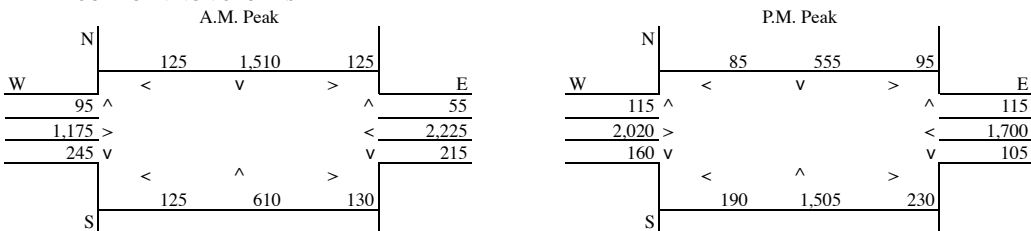
Roadway Type	No. of Lanes	Approach/Departure Speed		
		A.M.	P.M.	
North-South Roadway: Balboa St.	AT GRADE	4	5	5
East-West Roadway: Nordhoff St.	AT GRADE	6	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,835	N-S Road	2,745
E-W Road	3,990	E-W Road	4,270
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	2,835	*	1.49	÷	100,000
E-W Road	6.1	4.9	3.5	*	3,990	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	2,745	*	1.49	÷	100,000
E-W Road	6.1	4.9	3.5	*	4,270	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
25 Feet from Roadway Edge	7.1	7.1	5.8
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: I-405 SB Ramps and Nordhoff St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

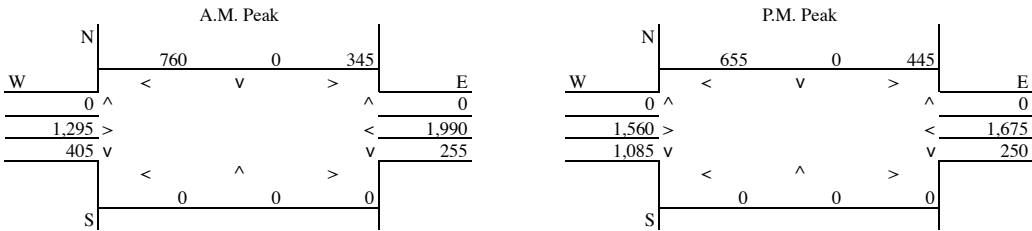
Roadway Type	No. of Lanes	Approach/Departure Speed	
		A.M.	P.M.
North-South Roadway: I-405 SB Ramps	AT GRADE	0	5
East-West Roadway: Nordhoff St.	AT GRADE	4	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,105	N-S Road	1,335
E-W Road	4,450	E-W Road	4,975
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor			
	25 Feet	50 Feet	100 Feet					
A.M. Peak Hour								
N-S Road	0.0	0.0	0.0	*	1,105	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	4,450	*	1.49	÷ 100,000
P.M. Peak Hour								
N-S Road	0.0	0.0	0.0	*	1,335	*	1.49	÷ 100,000
E-W Road	7.0	5.4	3.8	*	4,975	*	1.49	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.1	7.1	5.9
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: I-405 NB Ramps and Nordhoff St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

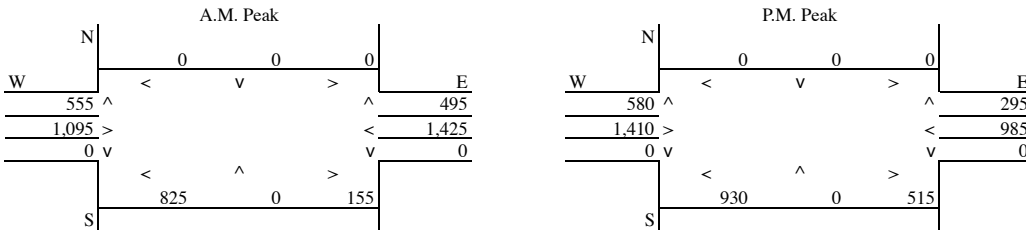
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	I-405 NB Ramps	0	5	5
East-West Roadway:	Nordhoff St.	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,050	N-S Road	1,445
E-W Road	3,900	E-W Road	3,905
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	0.0	0.0	0.0	*	1,050	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	3,900	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	0.0	0.0	0.0	*	1,445	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	3,905	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
25 Feet from Roadway Edge	7.0	7.0	5.8
50 Feet from Roadway Edge	6.9	6.9	5.7
100 Feet from Roadway Edge	6.8	6.8	5.7

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2002

Project Title: CSU Northridge Master Plan EIR
 Intersection: Lindley Ave. and Parthenia St.
 Analysis Condition: Cumulative Plus Project (2035) Peak Hour Traffic Volumes
 Nearest Air Monitoring Station measuring CO: Reseda
 Background 1-hour CO Concentration (ppm): 6.6
 Background 8-hour CO Concentration (ppm): 5.5
 Persistence Factor: 0.7
 Analysis Year: 2035

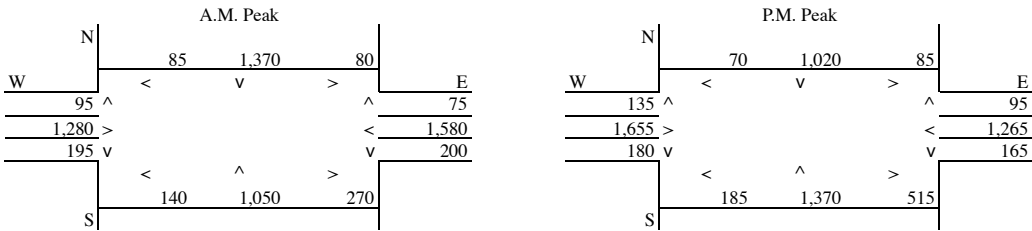
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Lindley Ave.	AT GRADE	4	5	5
East-West Roadway: Parthenia St.	AT GRADE	4	5	5

EMFAC2002 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2004	14.389	12.507	11.033	9.862	8.921	8.158	7.535	7.024	6.606	6.266
2005	13.055	11.365	10.039	8.985	8.136	7.447	6.883	6.420	6.040	5.730
2006	12.159	10.599	9.375	8.400	7.615	6.975	6.452	6.021	5.666	5.377
2007	11.221	9.796	8.677	7.784	7.064	6.477	5.995	5.597	5.270	5.002
2008	10.296	9.003	7.985	7.173	6.516	5.979	5.538	5.173	4.872	4.625
2009	9.384	8.218	7.299	6.565	5.969	5.483	5.081	4.749	4.474	4.247
2010	8.524	7.478	6.653	5.992	5.455	5.015	4.652	4.350	4.099	3.892
2011	7.734	6.799	6.058	5.464	4.981	4.583	4.254	3.980	3.752	3.562
2012	7.025	6.187	5.523	4.988	4.553	4.194	3.895	3.646	3.438	3.265
2013	6.384	5.634	5.039	4.558	4.165	3.841	3.570	3.344	3.154	2.995
2014	5.804	5.134	4.600	4.169	3.815	3.521	3.276	3.070	2.896	2.751
2015	5.288	4.689	4.210	3.821	3.501	3.235	3.012	2.824	2.665	2.531
2020	3.367	3.023	2.743	2.512	2.318	2.155	2.015	1.894	1.791	1.701
2025	2.343	2.125	1.945	1.793	1.665	1.554	1.458	1.374	1.300	1.236
2030	1.793	1.627	1.491	1.376	1.279	1.195	1.123	1.059	1.003	0.954
2035	1.491	1.351	1.236	1.140	1.059	0.990	0.930	0.877	0.831	0.791
2040	1.338	1.211	1.107	1.020	0.947	0.885	0.831	0.784	0.744	0.708

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,225	N-S Road	3,435
E-W Road	3,485	E-W Road	3,780
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor				
	25 Feet	50 Feet	100 Feet						
A.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	3,225	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	3,485	*	1.49	÷	100,000
P.M. Peak Hour									
N-S Road	2.6	2.2	1.7	*	3,435	*	1.49	÷	100,000
E-W Road	7.0	5.4	3.8	*	3,780	*	1.49	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.1	7.1	5.9
50 Feet from Roadway Edge	7.0	7.0	5.8
100 Feet from Roadway Edge	6.9	6.9	5.7

APPENDIX C

NOISE TECHNICAL DATA

2005 MASTER PLAN UPDATE

California State University
Northridge



Table C-1
NOISE LEVEL CONTOURS - Existing Weekday ADT Volumes

ROADWAY NAME Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. (dB(A))	Vehicle Mix Medium Trucks	Heavy Trucks	dB(A) CNEL
118 WB Ramps S/O Rinaldi St.	Commercial	8	0	421,633	65	100	0	0	1.8%	0.7%	83.5
Rinaldi St. E/O 118 WB Ramps	Residential, Commercial service	4	0	39,589	40	100	0	0	1.8%	0.7%	67.6
Roseda Blvd. N/O Rinaldi St.	Commercial	4	0	8,133	40	100	0	0	1.8%	0.7%	60.7
Rinaldi St. E/O Roseda Blvd.	Residential, Commercial service	4	0	26,422	40	100	0	0	1.8%	0.7%	65.8
Roseda Blvd. N/O 118 EB Ramps	Residential, Commercial service	4	0	25,944	40	100	0	0	1.8%	0.7%	65.7
Roseda Blvd. S/O 118 EB Ramps	Residential, Commercial service	4	0	36,444	40	100	0	0	1.8%	0.7%	67.2
118 EB Ramps W/O Roseda Blvd.	Residential, Commercial service	8	0	405,822	65	100	0	0	1.8%	0.7%	83.3
Balboa Blvd. N/O 118 WB Ramps	Residential, Commercial service	6	0	41,556	35	100	0	0	1.8%	0.7%	66.6
Balboa Blvd. S/O 118 WB Ramps	Residential, Commercial service	6	0	42,944	35	100	0	0	1.8%	0.7%	66.7
118 WB Ramps E/O Balboa Blvd.	Residential, Commercial service	8	0	453,845	65	100	0	0	1.8%	0.7%	83.8
Balboa Blvd. N/O 118 EB Ramps	Residential, Commercial service	6	0	42,944	35	100	0	0	1.8%	0.7%	66.7
Balboa Blvd. S/O 118 EB Ramps	Residential, Commercial service	6	0	41,211	35	100	0	0	1.8%	0.7%	66.5
118 EB Ramps E/O Balboa Blvd.	Residential, Commercial service	8	0	448,367	65	100	0	0	1.8%	0.7%	83.7
Roseda Blvd. N/O Chatsworth St	Residential, Commercial service	4	0	31,844	40	100	0	0	1.8%	0.7%	66.6
Roseda Blvd. S/O Chatsworth St	Residential, Commercial service	4	0	33,478	40	100	0	0	1.8%	0.7%	66.9
Chatsworth St. W/O Roseda Blvd.	Residential, Commercial service	4	0	19,267	35	100	0	0	1.8%	0.7%	63.1
Chatsworth St. E/O Roseda Blvd.	Residential, Commercial service	4	0	22,778	35	100	0	0	1.8%	0.7%	63.8
Zelzah Ave. N/O Chatsworth St	Residential, Commercial service	3	0	13,367	35	100	0	0	1.8%	0.7%	61.5
Zelzah Ave. S/O Chatsworth St	Residential, Commercial service	4	0	18,422	35	100	0	0	1.8%	0.7%	62.9
Chatsworth St. E/O Zelzah Ave.	Residential, Commercial service	4	0	22,011	35	100	0	0	1.8%	0.7%	63.7
Balboa Blvd. S/O Chatsworth St	Residential, Commercial service	6	0	35,667	35	100	0	0	1.8%	0.7%	65.9
Chatsworth St. E/O Balboa Blvd.	Residential, Commercial service	4	0	17,311	35	100	0	0	1.8%	0.7%	62.6
Roseda Blvd. S/O Devonshire St	Residential, Commercial service	4	0	34,133	40	100	0	0	1.8%	0.7%	66.9
Lindley Ave. S/O Devonshire St	Residential, School	2	0	9,311	30	100	0	0	1.8%	0.7%	58.8
Devonshire St. W/O Roseda Blvd.	Residential, Commercial service	4	0	31,811	40	100	0	0	1.8%	0.7%	66.6
Devonshire St. E/O Roseda Blvd.	Residential, Commercial service	4	0	31,178	40	100	0	0	1.8%	0.7%	66.5
Devonshire St. E/O Lindley Ave.	Residential, School	4	0	31,178	40	100	0	0	1.8%	0.7%	66.5
Zelzah Ave. S/O Devonshire St	Residential, School	4	0	18,644	35	100	0	0	1.8%	0.7%	63.0
Devonshire St. E/O Zelzah Ave.	Residential, Commercial service	4	0	30,578	40	100	0	0	1.8%	0.7%	66.5
Balboa Blvd. S/O Devonshire St	Residential, Commercial service	6	0	33,644	35	100	0	0	1.8%	0.7%	65.7
Devonshire St. E/O Balboa Blvd.	Residential, Commercial service	4	0	32,767	40	100	0	0	1.8%	0.7%	66.8
Woodley Ave. N/O Devonshire St	Residential, Commercial service	4	0	18,633	35	100	0	0	1.8%	0.7%	63.0
Woodley Ave. S/O Devonshire St	Residential, Commercial service	4	0	19,556	25	100	0	0	1.8%	0.7%	60.6
Devonshire St. E/O Woodley Ave.	Residential, Commercial service	4	0	35,122	40	100	0	0	1.8%	0.7%	67.1
405 SB Ramps N/O Devonshire St	Residential, Commercial service	8	0	374,807	65	100	0	0	1.8%	0.7%	82.9
405 NB Ramps N/O Devonshire St	Residential, Commercial service	8	0	369,007	65	100	0	0	1.8%	0.7%	82.9
405 NB Ramps S/O Devonshire St	Residential, Commercial service	8	0	376,440	65	100	0	0	1.8%	0.7%	83.0
Devonshire St. E/O 405 NB Ramps	Residential, Commercial service	6	0	31,878	40	100	0	0	1.8%	0.7%	66.8
Tampa Ave. N/O Lassen St.	Residential, Commercial service	6	0	35,300	25	100	0	0	1.8%	0.7%	63.3
Tampa Ave. S/O Lassen St.	Residential, Commercial service	6	0	35,822	40	100	0	0	1.8%	0.7%	67.3
Wilbur Ave. N/O Lassen St.	Residential, Commercial service	4	0	17,122	40	100	0	0	1.8%	0.7%	63.9
Wilbur Ave. S/O Lassen St.	Residential, Commercial service	4	0	16,556	40	100	0	0	1.8%	0.7%	63.8
Roseda Blvd. S/O Lassen St.	Residential, Commercial service	4	0	35,878	25	100	0	0	1.8%	0.7%	63.2
Lindley Ave. S/O Lassen St.	Residential, School	2	0	6,756	30	100	0	0	1.8%	0.7%	57.4
Zelzah Ave. S/O Lassen St.	Residential, School	4	0	23,589	35	100	0	0	1.8%	0.7%	64.0
Balboa Blvd. S/O Lassen St.	Residential, Commercial service	6	0	30,667	35	100	0	0	1.8%	0.7%	65.3
Lassen St. W/O Tampa Ave.	Residential, Commercial service	4	0	26,267	35	100	0	0	1.8%	0.7%	64.5
Lassen St. E/O Tampa Ave.	Residential, Commercial service	4	0	28,767	35	100	0	0	1.8%	0.7%	64.9
Lassen St. E/O Wilbur Ave.	Residential, Commercial service	4	0	28,711	35	100	0	0	1.8%	0.7%	64.8
Lassen St. E/O Roseda Blvd.	Residential, Commercial service	4	0	28,611	35	100	0	0	1.8%	0.7%	64.8
Lassen St. E/O Lindley Ave.	Residential, School	4	0	34,900	35	100	0	0	1.8%	0.7%	65.7
Lassen St. E/O Zelzah Ave.	Residential, Commercial service	4	0	29,278	35	100	0	0	1.8%	0.7%	64.9
Lassen St. E/O Balboa Blvd.	Residential, Commercial service	4	0	23,722	25	100	0	0	1.8%	0.7%	61.4
Tampa Ave. S/O Plummer St.	Residential, Commercial service	6	0	34,167	40	100	0	0	1.8%	0.7%	67.1
Wilbur Ave. S/O Plummer St.	Residential, Commercial service	4	0	11,422	40	100	0	0	1.8%	0.7%	62.2
Roseda Blvd. S/O Plummer St.	Residential, Commercial service	4	0	34,367	35	100	0	0	1.8%	0.7%	65.6
Zelzah Ave. S/O Plummer St.	Residential, School	4	0	22,989	35	100	0	0	1.8%	0.7%	63.9
Balboa Blvd. S/O Plummer St.	Residential, Commercial service	6	0	31,611	35	100	0	0	1.8%	0.7%	65.4
Plummer St. W/O Tampa Ave.	Residential, Commercial service	4	0	25,467	40	100	0	0	1.8%	0.7%	65.7
Plummer St. E/O Tampa Ave.	Residential, Commercial service	4	0	20,889	35	100	0	0	1.8%	0.7%	63.5
Plummer St. E/O Wilbur Ave.	Residential, Commercial service	4	0	15,722	35	100	0	0	1.8%	0.7%	62.2
Plummer St. E/O Roseda Blvd.	Residential, School	2	0	13,344	30	100	0	0	1.8%	0.7%	60.4
Plummer St. E/O Zelzah Ave.	Residential, Commercial service	4	0	9,756	35	100	0	0	1.8%	0.7%	60.2
Plummer St. E/O White Oak Ave.	Residential, Commercial service	4	0	13,456	35	100	0	0	1.8%	0.7%	61.6
Plummer St. E/O Balboa Blvd.	Residential, Commercial service	4	0	15,889	35	100	0	0	1.8%	0.7%	62.3
Roseda Blvd. S/O Prairie St.	Residential, Commercial service	4	0	36,167	35	100	0	0	1.8%	0.7%	65.8
Prairie St. E/O Roseda Blvd.	Residential, School	2	0	4,056	15	100	0	0	1.8%	0.7%	49.9
Zelzah Ave. S/O Prairie St.	Residential, School	4	0	19,522	35	100	0	0	1.8%	0.7%	63.2
Prairie St. E/O Zelzah Ave.	Residential, Commercial service	2	0	1,178	15	100	0	0	1.8%	0.7%	44.5
Prairie St. E/O White Oak Ave.	Residential, Commercial service	2	0	944	15	100	0	0	1.8%	0.7%	43.6
Tampa Ave. S/O Nordhoff St.	Residential, Commercial service	6	0	38,856	40	100	0	0	1.8%	0.7%	67.6
Roseda Ave. S/O Nordhoff St.	Residential, Commercial service	4	0	32,778	35	100	0	0	1.8%	0.7%	65.4
Darby Ave. N/O Nordhoff St.	School	2	0	6,511	15	100	0	0	1.8%	0.7%	52.0
W. University Dr. N/O Nordhoff	School	2	0	4,256	15	100	0	0	1.8%	0.7%	50.1
Eliwanda Ave. S/O Nordhoff St.	Residential, Commercial service	2	0	1,589	15	100	0	0	1.8%	0.7%	45.8
E. University Dr. N/O Nordhoff St.	School	2	0	2,522	15	100	0	0	1.8%	0.7%	47.8
Lindley Ave. S/O Nordhoff St.	Residential, Commercial service	4	0	25,078	25	100	0	0	1.8%	0.7%	61.6
Zelzah Ave. S/O Nordhoff St.	Residential, Commercial service	2	0	4,811	25	100	0	0	1.8%	0.7%	54.4
Balboa Blvd. S/O Nordhoff St.	Residential, Commercial service	6	0	33,578	35	100	0	0	1.8%	0.7%	65.7
Woodley Ave. S/O Nordhoff St.	Residential, Commercial service	4	0	25,778	35	100	0	0	1.8%	0.7%	64.4
Nordhoff St. W/O Tampa Ave.	Residential, Commercial service	4	0	29,944	40	100	0	0	1.8%	0.7%	66.4
Nordhoff St. E/O Tampa Ave.	Residential, Commercial service	6	0	34,911	40	100	0	0	1.8%	0.7%	67.6
Nordhoff St. E/O Wilbur Ave.	Residential, Commercial service	6	0	36,367	40	100	0	0	1.8%	0.7%	67.3
Nordhoff St. E/O Roseda Blvd.	Residential, Commercial service	6	0	41,256	40	100	0	0	1.8%	0.7%	67.9
Nordhoff St. E/O Darby Ave.	Residential, School	6	0	40,933	40	100	0	0	1.8%	0.7%	67.9
Nordhoff St. E/O Eliwanda Ave.	Residential, School	6	0	41,711	40	100	0	0	1.8%	0.7%	67.9
Nordhoff St. E/O Lindley Ave.	Residential, School	6	0	45,333	40	100	0	0	1.8%	0.7%	68.3
Nordhoff St. E/O Zelzah Ave.	Residential, Commercial service	6	0	37,089	40	100	0	0	1.8%	0.7%	67.4
Nordhoff St. E/O White Oak Ave.	Residential, Commercial service	6	0	34,900	40	100	0	0	1.8%	0.7%	67.2
Nordhoff St. E/O Balboa Blvd.	Residential, Commercial service	6	0	34,467	40	100	0	0	1.8%	0.7%	67.6
Nordhoff St. E/O Woodley Ave.	Residential, Commercial service	6	0	38,456	40	100	0	0	1.8%	0.7%	67.6
405 SB Ramps S/O Nordhoff St.	Residential, Commercial service	8	0	455,674	65	100	0	0	1.8%	0.7%	83.8
405 NB Ramps S/O Nordhoff St.	Residential, Commercial service	8	0	457,352	65	100	0	0	1.8%	0.7%	83.8
Roseda Blvd. S/O Parthenia St.	Residential, Commercial service	4	0	31,433	35	100	0	0	1.8%	0.7%	65.2
Lindley Ave. S/O Parthenia St.	Residential, Commercial service	4	0	31,211	25	100	0	0	1.8%	0.7%	62.6
Roscoe Blvd. S/O Roscoe Blvd.	Residential, Commercial service	4	0	26,033	35	100	0	0	1.8%	0.7%	64.4
Lindley Ave. S/O Roscoe Blvd.	Residential, Commercial service	4	0	26,122	25	100	0	0	1.8%	0.7%	61.8
Parthenia St. E/O Lindley Ave.	Residential, Commercial service	4	0	33,367	40	100	0	0	1.8%	0.7%	66.8
Roscoe Blvd. E/O Roseda Blvd.	Residential, Commercial service	6	0	34,167	35	100	0	0	1.8%	0.7%	65.7
Roscoe Blvd. E/O Lindley Ave.	Residential, Commercial service	6	0	33,878	35	100	0	0	1.8%	0.7%	65.7

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Table C-2
NOISE LEVEL CONTOURS - Future Without Project Weekday ADT Volumes

ROADWAY NAME	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. d(BA)	Vehicle Mix Medium Trucks	Heavy Trucks	d(B) CNEL
118 WB Ramps S/O Rinaldi St.	Commercial	8	0	497,532	65	100	0	0	1.8%	0.7%	84.2
Rinaldi St. E/O 118 WB Ramps	Residential, Commercial service	4	0	46,711	40	100	0	0	1.8%	0.7%	68.3
Reseda Blvd. N/O Rinaldi St.	Commercial	4	0	9,789	40	100	0	0	1.8%	0.7%	61.5
Rinaldi St. E/O Reseda Blvd.	Residential, Commercial service	4	0	31,211	40	100	0	0	1.8%	0.7%	66.5
Reseda Blvd. N/O 118 EB Ramps	Residential, Commercial service	4	0	30,778	40	100	0	0	1.8%	0.7%	66.5
Reseda Blvd. S/O 118 EB Ramps	Residential, Commercial service	4	0	43,156	40	100	0	0	1.8%	0.7%	68.0
118 EB Ramps W/O Reseda Blvd.	Residential, Commercial service	8	0	479,232	65	100	0	0	1.8%	0.7%	84.0
Balboa Blvd. N/O 118 WB Ramps	Residential, Commercial service	6	0	49,356	35	100	0	0	1.8%	0.7%	67.3
Balboa Blvd. S/O 118 WB Ramps	Residential, Commercial service	6	0	50,978	35	100	0	0	1.8%	0.7%	67.5
118 WB Ramps E/O Balboa Blvd.	Residential, Commercial service	8	0	535,539	65	100	0	0	1.8%	0.7%	84.5
Balboa Blvd. N/O 118 EB Ramps	Residential, Commercial service	6	0	50,978	35	100	0	0	1.8%	0.7%	67.5
Balboa Blvd. S/O 118 EB Ramps	Residential, Commercial service	6	0	48,933	35	100	0	0	1.8%	0.7%	67.3
118 EB Ramps E/O Balboa Blvd.	Residential, Commercial service	8	0	529,072	65	100	0	0	1.8%	0.7%	84.4
Reseda Blvd. N/O Chatsworth St.	Residential, Commercial service	4	0	37,778	40	100	0	0	1.8%	0.7%	67.4
Reseda Blvd. S/O Chatsworth St.	Residential, Commercial service	4	0	39,644	40	100	0	0	1.8%	0.7%	67.6
Chatsworth St. W/O Reseda Blvd.	Residential, Commercial service	4	0	23,122	35	100	0	0	1.8%	0.7%	63.9
Chatsworth St. E/O Reseda Blvd.	Residential, Commercial service	4	0	27,322	35	100	0	0	1.8%	0.7%	64.6
Zelzah Ave. N/O Chatsworth St.	Residential, Commercial service	3	0	15,889	35	100	0	0	1.8%	0.7%	62.2
Zelzah Ave. S/O Chatsworth St.	Residential, Commercial service	4	0	21,867	35	100	0	0	1.8%	0.7%	63.7
Chatsworth St. E/O Zelzah Ave.	Residential, Commercial service	4	0	27,322	35	100	0	0	1.8%	0.7%	64.6
Balboa Blvd. S/O Chatsworth St.	Residential, Commercial service	6	0	42,411	35	100	0	0	1.8%	0.7%	66.7
Chatsworth St. E/O Balboa Blvd.	Residential, Commercial service	4	0	20,656	35	100	0	0	1.8%	0.7%	63.4
Reseda Blvd. S/O Devonshire St.	Residential, Commercial service	4	0	40,722	40	100	0	0	1.8%	0.7%	67.7
Lindley Ave. S/O Devonshire St.	Residential, School	2	0	11,100	30	100	0	0	1.8%	0.7%	59.6
Devonshire St. W/O Reseda Blvd.	Residential, Commercial service	4	0	37,844	40	100	0	0	1.8%	0.7%	67.4
Devonshire St. E/O Reseda Blvd.	Residential, Commercial service	4	0	37,411	40	100	0	0	1.8%	0.7%	67.3
Devonshire St. E/O Lindley Ave.	Residential, School	4	0	37,422	40	100	0	0	1.8%	0.7%	67.3
Zelzah Ave. S/O Devonshire St.	Residential, School	4	0	22,122	35	100	0	0	1.8%	0.7%	63.7
Devonshire St. E/O Zelzah Ave.	Residential, Commercial service	4	0	36,722	40	100	0	0	1.8%	0.7%	67.3
Balboa Blvd. S/O Devonshire St.	Residential, Commercial service	6	0	39,989	35	100	0	0	1.8%	0.7%	66.4
Devonshire St. E/O Balboa Blvd.	Residential, Commercial service	4	0	39,178	40	100	0	0	1.8%	0.7%	67.5
Woodley Ave. N/O Devonshire St.	Residential, Commercial service	4	0	22,000	35	100	0	0	1.8%	0.7%	63.7
Woodley Ave. S/O Devonshire St.	Residential, Commercial service	4	0	23,078	25	100	0	0	1.8%	0.7%	61.3
Devonshire St. E/O Woodley Ave.	Residential, Commercial service	4	0	41,956	40	100	0	0	1.8%	0.7%	67.8
405 SB Ramps N/O Devonshire St.	Residential, Commercial service	8	0	442,604	65	100	0	0	1.8%	0.7%	83.7
405 NB Ramps N/O Devonshire St.	Residential, Commercial service	8	0	435,615	65	100	0	0	1.8%	0.7%	83.6
405 NB Ramps S/O Devonshire St.	Residential, Commercial service	8	0	444,204	65	100	0	0	1.8%	0.7%	83.7
Devonshire St. E/O 405 NB Ramps	Residential, Commercial service	6	0	37,633	40	100	0	0	1.8%	0.7%	67.5
Tampa Ave. N/O Lassen St.	Residential, Commercial service	6	0	44,011	25	100	0	0	1.8%	0.7%	64.2
Tampa Ave. S/O Lassen St.	Residential, Commercial service	6	0	45,178	40	100	0	0	1.8%	0.7%	68.3
Wilbur Ave. N/O Lassen St.	Residential, Commercial service	4	0	20,211	40	100	0	0	1.8%	0.7%	64.7
Wilbur Ave. S/O Lassen St.	Residential, Commercial service	4	0	19,544	40	100	0	0	1.8%	0.7%	64.5
Reseda Blvd. S/O Lassen St.	Residential, Commercial service	4	0	42,789	25	100	0	0	1.8%	0.7%	64.0
Lindley Ave. S/O Lassen St.	Residential, School	2	0	7,978	30	100	0	0	1.8%	0.7%	58.2
Zelzah Ave. S/O Lassen St.	Residential, School	4	0	27,856	35	100	0	0	1.8%	0.7%	64.7
Balboa Blvd. S/O Lassen St.	Residential, Commercial service	6	0	36,478	35	100	0	0	1.8%	0.7%	66.0
Lassen St. W/O Tampa Ave.	Residential, Commercial service	4	0	31,144	35	100	0	0	1.8%	0.7%	65.2
Lassen St. E/O Tampa Ave.	Residential, Commercial service	4	0	34,322	35	100	0	0	1.8%	0.7%	65.6
Lassen St. E/O Wilbur Ave.	Residential, Commercial service	4	0	34,278	35	100	0	0	1.8%	0.7%	65.6
Lassen St. E/O Reseda Blvd.	Residential, Commercial service	4	0	34,156	35	100	0	0	1.8%	0.7%	65.6
Lassen St. E/O Lindley Ave.	Residential, School	4	0	41,189	35	100	0	0	1.8%	0.7%	66.4
Lassen St. E/O Zelzah Ave.	Residential, Commercial service	4	0	34,667	35	100	0	0	1.8%	0.7%	65.7
Lassen St. E/O Balboa Blvd.	Residential, Commercial service	4	0	28,000	25	100	0	0	1.8%	0.7%	62.1
Tampa Ave. S/O Plummer St.	Residential, Commercial service	6	0	45,056	40	100	0	0	1.8%	0.7%	68.3
Wilbur Ave. S/O Plummer St.	Residential, Commercial service	4	0	13,487	40	100	0	0	1.8%	0.7%	62.9
Reseda Blvd. S/O Plummer St.	Residential, Commercial service	4	0	41,551	35	100	0	0	1.8%	0.7%	66.4
Zelzah Ave. S/O Plummer St.	Residential, School	4	0	27,114	35	100	0	0	1.8%	0.7%	64.6
Balboa Blvd. S/O Plummer St.	Residential, Commercial service	6	0	37,578	35	100	0	0	1.8%	0.7%	66.1
Plummer St. W/O Tampa Ave.	Residential, Commercial service	4	0	31,611	40	100	0	0	1.8%	0.7%	66.6
Plummer St. E/O Tampa Ave.	Residential, Commercial service	4	0	25,144	35	100	0	0	1.8%	0.7%	64.3
Plummer St. E/O Wilbur Ave.	Residential, Commercial service	2	0	19,044	35	100	0	0	1.8%	0.7%	63.0
Plummer St. E/O Reseda Blvd.	Residential, School	1	0	15,756	30	100	0	0	1.8%	0.7%	61.1
Plummer St. E/O Zelzah Ave.	Residential, Commercial service	4	0	11,511	35	100	0	0	1.8%	0.7%	60.9
Plummer St. E/O White Oak Ave.	Residential, Commercial service	4	0	15,867	35	100	0	0	1.8%	0.7%	62.3
Plummer St. E/O Balboa Blvd.	Residential, Commercial service	4	0	18,744	35	100	0	0	1.8%	0.7%	63.0
Reseda Blvd. S/O Prairie St.	Residential, Commercial service	4	0	44,322	35	100	0	0	1.8%	0.7%	66.7
Prairie St. E/O Reseda Blvd.	Residential, School	2	0	4,789	15	100	0	0	1.8%	0.7%	50.6
Zelzah Ave. S/O Prairie St.	Residential, School	4	0	23,056	35	100	0	0	1.8%	0.7%	63.9
Prairie St. E/O Zelzah Ave.	Residential, Commercial service	2	0	1,389	15	100	0	0	1.8%	0.7%	45.2
Prairie St. E/O White Oak Ave.	Residential, Commercial service	2	0	1,122	15	100	0	0	1.8%	0.7%	44.3
Tampa Ave. S/O Nordhoff St.	Residential, Commercial service	6	0	49,411	40	100	0	0	1.8%	0.7%	68.7
Reseda Ave. S/O Nordhoff St.	Residential, Commercial service	4	0	40,467	35	100	0	0	1.8%	0.7%	66.3
Darby Ave. N/O Nordhoff St.	School	2	0	7,678	15	100	0	0	1.8%	0.7%	52.7
W. University Dr. N/O Nordhoff	School	2	0	5,022	15	100	0	0	1.8%	0.7%	50.8
Etowanda Ave. S/O Nordhoff St.	Residential, Commercial service	2	0	1,878	15	100	0	0	1.8%	0.7%	46.6
E. University Dr. N/O Nordhoff St.	School	2	0	2,978	15	100	0	0	1.8%	0.7%	48.6
Lindley Ave. S/O Nordhoff St.	Residential, Commercial service	4	0	29,611	25	100	0	0	1.8%	0.7%	62.4
Zelzah Ave. S/O Nordhoff St.	Residential, Commercial service	2	0	5,689	25	100	0	0	1.8%	0.7%	55.1
Balboa Blvd. S/O Nordhoff St.	Residential, Commercial service	6	0	40,367	35	100	0	0	1.8%	0.7%	66.5
Woodley Ave. S/O Nordhoff St.	Residential, Commercial service	4	0	30,411	35	100	0	0	1.8%	0.7%	65.1
Nordhoff St. W/O Tampa Ave.	Residential, Commercial service	4	0	39,467	40	100	0	0	1.8%	0.7%	67.6
Nordhoff St. E/O Tampa Ave.	Residential, Commercial service	6	0	47,433	40	100	0	0	1.8%	0.7%	68.5
Nordhoff St. E/O Wilder Ave.	Residential, Commercial service	6	0	44,433	40	100	0	0	1.8%	0.7%	68.2
Nordhoff St. E/O Reseda Blvd.	Residential, Commercial service	6	0	49,533	40	100	0	0	1.8%	0.7%	68.7
Nordhoff St. E/O Darby Ave.	Residential, School	6	0	49,133	40	100	0	0	1.8%	0.7%	68.7
Nordhoff St. E/O Etowanda Ave.	Residential, School	6	0	50,078	40	100	0	0	1.8%	0.7%	68.7
Nordhoff St. E/O Lindley Ave.	Residential, School	6	0	54,233	40	100	0	0	1.8%	0.7%	69.1
Nordhoff St. E/O Zelzah Ave.	Residential, Commercial service	6	0	44,633	40	100	0	0	1.8%	0.7%	68.2
Nordhoff St. E/O White Oak Ave.	Residential, Commercial service	6	0	41,956	40	100	0	0	1.8%	0.7%	68.0
Nordhoff St. E/O Balboa Blvd.	Residential, Commercial service	6	0	46,356	40	100	0	0	1.8%	0.7%	68.4
Nordhoff St. E/O Woodley Ave.	Residential, Commercial service	6	0	46,344	40	100	0	0	1.8%	0.7%	68.4
405 SB Ramps S/O Nordhoff St.	Residential, Commercial service	8	0	537,878	65	100	0	0	1.8%	0.7%	84.5
405 NB Ramps S/O Nordhoff St.	Residential, Commercial service	8	0	539,945	65	100	0	0	1.8%	0.7%	84.5
Reseda Blvd. S/O Parthenia St.	Residential, Commercial service	4	0	38,367	35	100	0	0	1.8%	0.7%	66.1
Lindley Ave. S/O Parthenia St.	Residential, Commercial service	4	0	36,822	25	100	0	0	1.8%	0.7%	63.3
Reseda Blvd. S/O Roscoe Blvd.	Residential, Commercial service	4	0	31,989	35	100	0	0	1.8%	0.7%	65.3
Lindley Ave. S/O Roscoe Blvd.	Residential, Commercial service	4	0	30,833	25	100	0	0	1.8%	0.7%	62.5
Parthenia St. E/O Lindley Ave.	Residential, Commercial service	4	0	41,867	40	100	0	0	1.8%	0.7%	67.8
Roscoe Blvd. E/O Reseda Blvd.	Residential, Commercial service	6	0	41,522	35	100	0	0	1.8%	0.7%	66.6
Roscoe Blvd. E/O Lindley Ave.	Residential, Commercial service	6	0	41,178	35	100	0	0	1.8%	0.7%	66.5

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

**Table C-3
NOISE LEVEL CONTOURS - Future With Project Weekday ADT Volumes**

ROADWAY NAME	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha	Barrier	Vehicle Mix		dB(A) CNEL
Segment							Factor (1)	Alt. d(B(A))	Medium Trucks	Heavy Trucks	
118 WB Ramps S/O Rinaldi St.	Commercial	8	0	498,221	65	100	0	0	1.8%	0.7%	84.2
Rinaldi St. E/O 118 WB Ramps	Residential, Commercial service	4	0	47,400	40	100	0	0	1.8%	0.7%	68.4
Reseda Blvd. N/O Rinaldi St.	Commercial	4	0	9,800	40	100	0	0	1.8%	0.7%	61.5
Rinaldi St. E/O Reseda Blvd.	Residential, Commercial service	4	0	31,556	40	100	0	0	1.8%	0.7%	66.6
Reseda Blvd. N/O 118 EB Ramps	Residential, Commercial service	4	0	31,133	40	100	0	0	1.8%	0.7%	66.5
Reseda Blvd. S/O 118 EB Ramps	Residential, Commercial service	4	0	43,889	40	100	0	0	1.8%	0.7%	68.0
118 EB Ramps W/O Reseda Blvd.	Residential, Commercial service	8	0	478,865	65	100	0	0	1.8%	0.7%	84.0
Balboa Blvd. N/O 118 WB Ramps	Residential, Commercial service	6	0	50,378	35	100	0	0	1.8%	0.7%	67.4
Balboa Blvd. S/O 118 WB Ramps	Residential, Commercial service	6	0	52,789	35	100	0	0	1.8%	0.7%	67.6
118 WB Ramps E/O Balboa Blvd.	Residential, Commercial service	8	0	536,328	65	100	0	0	1.8%	0.7%	84.5
Balboa Blvd. N/O 118 EB Ramps	Residential, Commercial service	6	0	52,789	35	100	0	0	1.8%	0.7%	67.6
Balboa Blvd. S/O 118 EB Ramps	Residential, Commercial service	6	0	52,400	35	100	0	0	1.8%	0.7%	67.6
118 EB Ramps E/O Balboa Blvd.	Residential, Commercial service	8	0	530,728	65	100	0	0	1.8%	0.7%	84.5
Reseda Blvd. N/O Chatsworth St	Residential, Commercial service	4	0	38,400	40	100	0	0	1.8%	0.7%	67.4
Reseda Blvd. S/O Chatsworth St	Residential, Commercial service	4	0	40,122	40	100	0	0	1.8%	0.7%	67.6
Chatsworth St. W/O Reseda Blvd.	Residential, Commercial service	4	0	23,322	35	100	0	0	1.8%	0.7%	63.9
Chatsworth St. E/O Reseda Blvd.	Residential, Commercial service	4	0	27,656	35	100	0	0	1.8%	0.7%	64.7
Zelzah Ave. N/O Chatsworth St.	Residential, Commercial service	3	0	16,744	35	100	0	0	1.8%	0.7%	62.5
Zelzah Ave. S/O Chatsworth St.	Residential, Commercial service	4	0	23,767	35	100	0	0	1.8%	0.7%	64.0
Chatsworth St. E/O Zelzah Ave.	Residential, Commercial service	4	0	26,511	35	100	0	0	1.8%	0.7%	64.5
Balboa Blvd. S/O Chatsworth St	Residential, Commercial service	6	0	45,644	35	100	0	0	1.8%	0.7%	67.0
Chatsworth St. E/O Balboa Blvd.	Residential, Commercial service	4	0	28,956	35	100	0	0	1.8%	0.7%	63.5
Reseda Blvd. S/O Devonshire St	Residential, Commercial service	4	0	42,100	40	100	0	0	1.8%	0.7%	67.8
Lindley Ave. S/O Devonshire St	Residential, School	2	0	11,856	30	100	0	0	1.8%	0.7%	59.9
Devonshire St. W/O Reseda Blvd.	Residential, Commercial service	4	0	38,478	40	100	0	0	1.8%	0.7%	67.5
Devonshire St. E/O Reseda Blvd.	Residential, Commercial service	4	0	38,944	40	100	0	0	1.8%	0.7%	67.5
Devonshire St. E/O Lindley Ave.	Residential, School	4	0	39,433	40	100	0	0	1.8%	0.7%	67.6
Zelzah Ave. S/O Devonshire St.	Residential, School	4	0	25,767	35	100	0	0	1.8%	0.7%	64.4
Devonshire St. E/O Zelzah Ave.	Residential, Commercial service	4	0	39,078	40	100	0	0	1.8%	0.7%	67.5
Balboa Blvd. S/O Devonshire St.	Residential, Commercial service	6	0	42,111	35	100	0	0	1.8%	0.7%	66.6
Devonshire St. E/O Balboa Blvd.	Residential, Commercial service	4	0	40,433	40	100	0	0	1.8%	0.7%	67.7
Woodley Ave. N/O Devonshire St	Residential, Commercial service	4	0	22,156	35	100	0	0	1.8%	0.7%	63.7
Woodley Ave. S/O Devonshire St	Residential, Commercial service	4	0	23,733	25	100	0	0	1.8%	0.7%	61.4
Devonshire St. E/O Woodley Ave.	Residential, Commercial service	4	0	43,589	40	100	0	0	1.8%	0.7%	68.0
405 SB Ramps N/O Devonshire St	Residential, Commercial service	8	0	443,027	65	100	0	0	1.8%	0.7%	83.7
405 NB Ramps N/O Devonshire St	Residential, Commercial service	8	0	436,415	65	100	0	0	1.8%	0.7%	83.6
405 NB Ramps S/O Devonshire St	Residential, Commercial service	8	0	444,360	65	100	0	0	1.8%	0.7%	83.7
Devonshire St. E/O 405 NB Ramps	Residential, Commercial service	6	0	37,744	40	100	0	0	1.8%	0.7%	67.5
Tampa Ave. N/O Lassen St.	Residential, Commercial service	6	0	44,367	25	100	0	0	1.8%	0.7%	64.2
Tampa Ave. S/O Lassen St.	Residential, Commercial service	6	0	45,544	40	100	0	0	1.8%	0.7%	68.3
Wilbur Ave. N/O Lassen St.	Residential, Commercial service	4	0	20,422	40	100	0	0	1.8%	0.7%	64.7
Wilbur Ave. S/O Lassen St.	Residential, Commercial service	4	0	19,689	40	100	0	0	1.8%	0.7%	64.5
Reseda Blvd. S/O Lassen St.	Residential, Commercial service	4	0	44,556	25	100	0	0	1.8%	0.7%	64.1
Lindley Ave. S/O Lassen St.	Residential, School	2	0	8,022	30	100	0	0	1.8%	0.7%	58.2
Zelzah Ave. S/O Lassen St.	Residential, School	4	0	31,289	35	100	0	0	1.8%	0.7%	65.2
Balboa Blvd. S/O Lassen St.	Residential, Commercial service	6	0	36,611	35	100	0	0	1.8%	0.7%	66.3
Lassen St. W/O Tampa Ave.	Residential, Commercial service	4	0	31,433	35	100	0	0	1.8%	0.7%	65.2
Lassen St. E/O Tampa Ave.	Residential, Commercial service	4	0	34,744	35	100	0	0	1.8%	0.7%	65.7
Lassen St. E/O Wilbur Ave.	Residential, Commercial service	4	0	34,756	35	100	0	0	1.8%	0.7%	65.7
Lassen St. E/O Reseda Blvd.	Residential, Commercial service	4	0	34,600	35	100	0	0	1.8%	0.7%	65.7
Lassen St. E/O Lindley Ave.	Residential, School	4	0	41,778	35	100	0	0	1.8%	0.7%	66.5
Lassen St. E/O Zelzah Ave.	Residential, Commercial service	4	0	35,556	35	100	0	0	1.8%	0.7%	65.8
Lassen St. E/O Balboa Blvd.	Residential, Commercial service	4	0	28,656	25	100	0	0	1.8%	0.7%	62.2
Tampa Ave. S/O Plummer St.	Residential, Commercial service	6	0	45,578	40	100	0	0	1.8%	0.7%	68.3
Wilbur Ave. S/O Plummer St.	Residential, Commercial service	4	0	13,622	40	100	0	0	1.8%	0.7%	62.9
Reseda Blvd. S/O Plummer St.	Residential, Commercial service	4	0	42,344	35	100	0	0	1.8%	0.7%	66.5
Zelzah Ave. S/O Plummer St.	Residential, School	4	0	29,388	35	100	0	0	1.8%	0.7%	64.9
Balboa Blvd. S/O Plummer St.	Residential, Commercial service	6	0	39,333	35	100	0	0	1.8%	0.7%	66.3
Plummer St. W/O Tampa Ave.	Residential, Commercial service	4	0	32,100	40	100	0	0	1.8%	0.7%	66.7
Plummer St. E/O Tampa Ave.	Residential, Commercial service	4	0	26,389	35	100	0	0	1.8%	0.7%	64.5
Plummer St. E/O Wilbur Ave.	Residential, Commercial service	2	0	20,278	35	100	0	0	1.8%	0.7%	63.3
Plummer St. E/O Reseda Blvd.	Residential, School	1	0	17,878	30	100	0	0	1.8%	0.7%	61.7
Plummer St. E/O Zelzah Ave.	Residential, Commercial service	4	0	15,778	35	100	0	0	1.8%	0.7%	62.2
Plummer St. E/O White Oak Ave.	Residential, Commercial service	4	0	20,144	35	100	0	0	1.8%	0.7%	63.3
Plummer St. E/O Balboa Blvd.	Residential, Commercial service	4	0	21,711	35	100	0	0	1.8%	0.7%	63.6
Reseda Blvd. S/O Prairie St.	Residential, Commercial service	4	0	44,744	35	100	0	0	1.8%	0.7%	66.8
Prairie St. E/O Reseda Blvd.	Residential, School	2	0	5,078	15	100	0	0	1.8%	0.7%	50.9
Zelzah Ave. S/O Prairie St.	Residential, School	4	0	24,178	35	100	0	0	1.8%	0.7%	64.1
Prairie St. E/O Zelzah Ave.	Residential, Commercial service	2	0	2,911	15	100	0	0	1.8%	0.7%	48.5
Prairie St. E/O White Oak Ave.	Residential, Commercial service	2	0	2,633	15	100	0	0	1.8%	0.7%	48.0
Tampa Ave. S/O Nordhoff St.	Residential, Commercial service	6	0	49,933	40	100	0	0	1.8%	0.7%	68.7
Reseda Ave. S/O Nordhoff St.	Residential, Commercial service	4	0	40,733	35	100	0	0	1.8%	0.7%	66.4
Darby Ave. N/O Nordhoff St.	School	2	0	7,678	15	100	0	0	1.8%	0.7%	52.7
W. University Dr. N/O Nordhoff	School	2	0	6,344	15	100	0	0	1.8%	0.7%	51.8
Etiwanda Ave. S/O Nordhoff St.	Residential, Commercial service	2	0	2,789	15	100	0	0	1.8%	0.7%	48.3
E. University Dr. N/O Nordhoff St.	School	2	0	3,178	15	100	0	0	1.8%	0.7%	48.8
Lindley Ave. S/O Nordhoff St.	Residential, Commercial service	4	0	30,833	25	100	0	0	1.8%	0.7%	62.5
Zelzah Ave. S/O Nordhoff St.	Residential, Commercial service	2	0	5,789	25	100	0	0	1.8%	0.7%	55.2
Balboa Blvd. S/O Nordhoff St.	Residential, Commercial service	6	0	41,200	35	100	0	0	1.8%	0.7%	66.5
Woodley Ave. S/O Nordhoff St.	Residential, Commercial service	4	0	30,467	35	100	0	0	1.8%	0.7%	65.1
Nordhoff St. W/O Tampa Ave.	Residential, Commercial service	4	0	39,622	40	100	0	0	1.8%	0.7%	67.6
Nordhoff St. E/O Tampa Ave.	Residential, Commercial service	6	0	47,589	40	100	0	0	1.8%	0.7%	68.5
Nordhoff St. E/O Wilbur Ave.	Residential, Commercial service	6	0	44,589	40	100	0	0	1.8%	0.7%	68.2
Nordhoff St. E/O Reseda Blvd.	Residential, Commercial service	6	0	50,044	40	100	0	0	1.8%	0.7%	68.7
Nordhoff St. E/O Darby Ave.	Residential, School	6	0	49,656	40	100	0	0	1.8%	0.7%	68.7
Nordhoff St. E/O Etiwanda Ave.	Residential, School	6	0	50,267	40	100	0	0	1.8%	0.7%	68.8
Nordhoff St. E/O Lindley Ave.	Residential, School	6	0	54,689	40	100	0	0	1.8%	0.7%	69.1
Nordhoff St. E/O Zelzah Ave.	Residential, Commercial service	6	0	45,667	40	100	0	0	1.8%	0.7%	68.3
Nordhoff St. E/O White Oak Ave.	Residential, Commercial service	6	0	43,022	40	100	0	0	1.8%	0.7%	68.1
Nordhoff St. E/O Balboa Blvd.	Residential, Commercial service	6	0	47,411	40	100	0	0	1.8%	0.7%	68.5
Nordhoff St. E/O Woodley Ave.	Residential, Commercial service	6	0	47,400	40	100	0	0	1.8%	0.7%	68.5
405 SB Ramps S/O Nordhoff St.	Residential, Commercial service	8	0	539,478	65	100	0	0	1.8%	0.7%	84.5
405 NB Ramps S/O Nordhoff St.	Residential, Commercial service	8	0	540,745	65	100	0	0	1.8%	0.7%	84.5
Reseda Blvd. S/O Parthenia St.	Residential, Commercial service	4	0	38,633	35	100	0	0	1.8%	0.7%	66.1
Lindley Ave. S/O Parthenia St.	Residential, Commercial service	4	0	38,144	25	100	0	0	1.8%	0.7%	63.5
Reseda Blvd. S/O Roscoe Blvd.	Residential, Commercial service	4	0	32,222	35	100	0	0	1.8%	0.7%	65.3
Lindley Ave. S/O Roscoe Blvd.	Residential, Commercial service	4	0	31,256	25	100	0	0	1.8%	0.7%	62.6
Parthenia St. E/O Lindley Ave.	Residential, Commercial service	4	0	41,967	40	100	0	0	1.8%	0.7%	67.8
Roscoe Blvd. E/O Reseda Blvd.	Residential, Commercial service	6	0	41,578	35	100	0	0	1.8%	0.7%	66.6
Roscoe Blvd. E/O Lindley Ave.	Residential, Commercial service	6	0	41,222	35	100	0	0	1.8%	0.7%	66.5

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Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
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