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Dave Rand
213.557.7224
Dave@rpnllp.com

September 5, 2024

Jing Yeo
Planning Manager
City of Santa Monica
1685 Main St.
Santa Minica, CA 90401

Re: Administrative Approval Application for 1640 5th Street

Dear Ms. Yeo:

We represent 1640 5th Street, LLC ("the Applicant") in connection with their proposal for a residential mixed-use project ("Project") at 1640 5th Street ("Site") in the City of Santa Monica ("City"). As described herein, the Project qualifies for benefits under the State Density Bonus Law ("SDBL") as recently amended by Assembly Bill ("AB") 1287, including a 30.5 percent density bonus, three development incentives that reduce Project costs, and unlimited waivers of development standards that physically accommodate the Project as proposed inclusive of the requested density bonus and incentives. The Applicant filed a preliminary application for the Project ("Preliminary Application") pursuant to Senate Bill 330 (as modified by Senate Bill 8) and paid all required permit fees on May 15, 2024. The Administrative Approval ("AA") application for the Project is attached to this letter and is being filed within the submittal deadline of November 11, 2024 (180 days) of the SB 330 application, therefore maintaining our vesting rights under this Entitlement Application.

I. Project Description

The Project proposes an 8-story residential building with a total of 132 units, including 15 deed restricted affordable units (5 Very Low, 5 Low Income and 5 Moderate-Income units), over three levels of subterranean parking with 132 vehicle parking spaces and 186 bicycle spaces (167 long-term and 19 short-term) on a 22,885-square foot lot.

II. Affordable Unit Requirement Project Density Bonus Requirements

To achieve the proposed density, the Project proposes to utilize benefits under the SDBL as recently amended by Assembly Bill ("AB") 1287 and implemented by Chapter 9.22 of the City's Zoning Code. As you know, the SDBL requires cities to grant density bonuses for housing projects that include a prescribed percentage of deed restricted affordable housing units, in addition to certain incentives that modify development standards to reduce Project costs and waivers of development standards to

physically accommodate the Project and incentives. Under the SDBL, if the Project provides 15 percent of its base units (i.e., the number of units permitted prior to the calculation of any bonus units) as Very Low-Income units, it would be entitled to a 50 percent density bonus, three incentives and unlimited waivers.

We note that units provided in compliance with the City's inclusionary affordable housing ordinance ("AHPP") (Zoning Code Chapter 9.64) will count toward the calculation of affordable units required to qualify for the 50 percent density bonus. Zoning Code Chapter 9.64 requires 5 percent of the Project's base units be provided as Very Low-Income units, 5 percent as Low-Income units and 5 percent as Moderate-Income units. The City considers all units provided in compliance with Zoning Code Chapter 9.64 as Very Low-Income units for the purposes of calculating benefits under the SDBL, and thus grants a full 50 percent density bonus, three incentives and unlimited waivers for compliance with Chapter 9.64.

III. Project Density

The City regulates residential density through a floor area ratio ("FAR") standard instead of a dwelling unit per acre standard. Thus, the SDBL requires that the developer provide a base density study that calculates the base density of the Project based on a project that complies with all applicable objective development standards. The Site is subject to a FAR of 4.0. The base density study for the Project demonstrates that the Project, if in compliance with all applicable objective standards, would have a base density of 101 units. Accordingly, to qualify for the 30.5 percent density bonus under SDBL, or a total of 132 units, the Project would only have to provide 10 percent of the units as Very-Low-Income. The Project however is providing 15 percent affordable units (for a 50 percent density bonus) consistent with the AHPP, which is in excess of the number of affordable units required under SDBL. Therefore, the Project provides 5 Very Low-Income units (5 percent of base units), 5 Low-Income units (5 percent of base units), and 5 Moderate-Income units (5 percent of base units). Although the project qualifies for a 50 percent density bonus under the AHPP (152 units), the Project proposes a 30.5 percent density bonus (132 units).

IV. Project Incentives and Waivers

Because the Project provides the requisite number of affordable units under SDBL and the AHPP, it also qualifies for three development incentives and an unlimited number of waivers. The City must grant incentive requests if they create identifiable and actual cost reductions necessary to provide for affordable housing costs; and they City must waive development standards if they have the effect of physically precluding the construction of the qualifying project with the density bonus and incentives requested. Under AB 1287, however, the City can no longer require financial documentation to substantiate the cost reductions required for an incentive request. In this section we identify the Project's requested incentives and waivers and explain how they qualify as such.

a. Project Incentives

The Project proposes the following three incentives: 1) reduction of the requirement to provide 10 percent of the Project's market rate and affordable units as three-bedroom units to 5 percent (on-menu incentive); 2) reduction of required long term bicycle parking from one to 0.90 (10% reduction) spaces per unit; and 3) increase in the DCP maximum parking requirement for market rate units above .50 space per unit. The reduction of the required bicycle parking spaces would reduce construction costs

by requiring less floor area in the subterranean parking structure and less bicycle racks. The average bicycle parking space requires approximately 15 square feet and costs approximately $150 per square foot, in addition to $550 per space for the bicycle racks. Finally, the allowance for an increase in the maximum parking requirement would allow for the Project to provide ample parking for the residents which the applicant believes is critical to lease up the units and ensure the overall economic viability of the Project.

b. Project Waivers

The Project proposes the following four waivers: 1) an increase in FAR from 4.0 to 4.84; 2) an increase in height from 84 feet to 85 feet; 3) an increase of the 1.7:1 height to width ratio for the podium level courtyard from 1.71 to 2.0' and 4) a reduction in the minimum upper level stepbacks above 60 feet for 35% of the front façade area. These waivers are required to physically accommodate the Project's proposed density, including the 30.5 percent density bonus under SDBL, and the incentives requested identified above.

Thank you for your time and attention on this matter. Please do not hesitate to contact me directly, or my colleague Michael Rocque at (520) 360-7182 or michael@rpnllp.com, with any questions or comments on the application or information provided in this letter.

Sincerely,

Dave Rand

Dave Rand
Partner
of RAND PASTER & NELSON, LLP

DR:smd

Attachments:
AA Application and Associated Materials

cc: Michael Rocque, Planner

ENT No.: 24ENT-0179

CITY OF SANTA MONICA – CITY PLANNING DIVISION

ADMINISTRATIVE APPROVAL APPLICATION

Housing Projects

Pursuant to SMMC 9.39.020(A)(1)

Applications are submitted online through a virtual appointment system.
If you have questions about completing this application, please email City Planning at 311@santamonica.gov.

GENERAL INFORMATION

PROJECT ADDRESS: 1640 5th Street Santa Monica, CA

PROJECT DESCRIPTION:

~~Project proposes an 8-story residential building with a total of 132 units, including 15 deed restricted affordable units, over three levels of subterranean parking with 132 vehicle parking spaces and 186 bicycle parking spaces (167 long-term and 19 short-term)~~

By applying for a permit, I understand and agree that contact information, including but not limited to, email addresses and telephone numbers, will become part of a disclosable public record pursuant to the California Public Records Act and that the City may elect not to redact contact information contained in this application prior to disclosing a copy of this application to the public. I further agree that I do not object to the City's disclosure of contact information contained in this application in response to public records requests.

APPLICANT *(Note: All correspondences will be sent to the contact person)*

Name: Justin Cua Organization Name: Lincoln Property Company
Address: 390 N. Pacific Coast Highway Suite 3100 City/State: El Segundo, CA Zip: 90245
Phone: 951.756.5814 Email: JustCua@LPC.com

CONTACT PERSON *(If different from applicant)*

Name: Dave Rand/Michael Rocque Organization Name: Rand Paster Nelson LLP
Address: 633 W. Fifth Street Suite 5880 City/State: LA, CA Zip: 90071
Phone: 213.557.2870 Email: michael@rpnllp.com
Relation to Applicant: Land Use Consultant

PROPERTY OWNER

Name: 1640 5th Street, LLC Organization Name: c/o David Quigley
Address: 1262 Palmetto Street Suite 527 City/State: LA, CA Zip: 90013
Phone: 213.335.3436 Email: ap.asb@lpc.com

I hereby certify that I am the owner of the subject property and that I have reviewed the subject application and declare, under penalty of making a false declaration, that to the best of my knowledge and belief, the information provided within this application is true, correct, complete, and made in good faith. I authorize the applicant or contact person to make decisions that may affect my property as it pertains to this application.

1640 5th Street, LLC c/o David Quigley
Property Owner's Name (PRINT)

Property Owner's Signature / Date 9/5/24

PERMIT APPLICATION SUBMITTAL REQUIREMENTS

PROJECT INFORMATION

Total Floor Area (SF): 110,902

No. of Stories / Height: 8-STORY/ 85'-0"

Commercial Floor Area (SF): 0

Parcel Area: 22,885 SF

Residential Floor Area (SF): 100,541

No. of Parking Spaces: Res: 132 Com: 0

Floor Area Ratio (FAR): 4.84

No. of "Protected Units" per SB 330 / 8: _____

Unit Count:

	Studios	1 Bedrooms	2 Bedrooms	3 Bedrooms	4 Bedrooms
# of Existing Units	0	0	0	0	0
# of Proposed Units	20	65	40	7	0

Affordable Housing Production Program Acknowledgement

In accordance with SMMC 9.64, all multi-unit projects involving the construction of two or more market rate units shall comply with the affordable housing obligations as set forth in SMMC 9.64.040. From the options listed below, please indicate how the Project will comply with the provisions of SMMC 9.64.040 (check all that apply):

- ☒ On-Site Option (SMMC 9.64.050)
- ☐ Affordable Housing Fee (SMMC 9.64.070)
- ☐ Off-Site Option (SMMC 9.64.060)
- ☐ Land Acquisition (SMMC 9.64.080)

On-site affordable units and affordability level

	Very Low	Low	Moderate	Total
# Studios	1	1	0	2
# 1 Bedrooms	3	2	2	7
# 2 Bedrooms	1	2	2	5
# 3 Bedrooms	0	0	1	1

Off-site affordable units and affordability level

	Very Low	Low	Moderate	Total
# Studios	0	0	0	0
# 1 bedrooms	0	0	0	0
# 2 bedrooms	0	0	0	0
# 3 bedrooms	0	0	0	0
Proposed Location: n/a				

SUBMITTAL REQUIREMENTS

Off-Site Option

Pursuant to SMMC 9.64.060(D) & (H) the following documentation is required for providing affordable housing units off-site (receiver site). Off-site units may not be located within the "Affordable Housing Prohibition Area" as depicted in SMMC 9.64.060(A)

☐ D. The multiple-unit project applicant shall identify an alternate site suitable for residential housing which the project applicant either owns or has site control over (e.g., purchase agreement, option to purchase, lease) subject to City review to ensure that the proposed development is consistent with the City's housing objectives and projects.

☐ H. The off-site affordable units shall be owned in whole or part and operated by a nonprofit affordable housing provider for the life of the project, and the Final Construction Permit Sign Off or Certificate of Occupancy for the off-site affordable units shall be issued prior to or concurrently with the market-rate housing project.

Density Bonus

■ Pursuant to SMMC 9.22 projects providing affordable housing may be eligible for a density bonus and additional incentives, concessions, waivers, and/or reductions of development standards. Describe your density bonus request below; provide additional sheets if necessary to show calculations or explain requested incentives, concessions, waivers and/or reductions.

Affordable units proposed on-site 15 %

Density bonus qualified for 30.5 %

Density bonus proposed _____ %

Base Density 101 units/SF
See SMMC 9.22.050(C)(2) for non-residential parcels

■ Pursuant to SMMC 9.22.050(C) & (D), applicant shall provide a base density study and a density bonus calculation for the proposed Project.

☐ Describe requested incentives and concessions below; if not listed in SMMC 9.22.060(B) or (C), applicant is required to provide reasonable documentation to establish eligibility for the requested incentives and concessions, as described in SMMC 9.22.080(A)(3).

1. See attached cover letter
2.
3.
4.
5.

☐ Describe requested waivers or reductions of development standards below. Pursuant to SMMC 9.22.080(A)(4) applicant is required to provide reasonable documentation to establish eligibility for the requested waiver or reduction of development standards.

1. See attached cover letter
2.
3.
4.
5.

SUBMITTAL MATERIALS

Project Submittal

■ All materials must be submitted digitally. Prepare one PDF file with the **SIGNED** application and all supplemental materials and a second PDF file of the Project Plans. Resolution should allow legible printing at 11" x 17".

Air Quality Assessment

■ Applicants of new residential development within the Air Quality Assessment Zone shall be required to include design features necessary to reduce resident exposure to diesel particulate matter (DPM). Applicants shall be responsible for the preparation of a brief technical memorandum that describes the effectiveness of the selected measures in reducing DPM emissions below SCAQMD cancer risk thresholds of 10 cancer cases per million (1.0 x 10-5).

Application Fees

■ The payment of an application fee is required at time of submittal. Contact City Planning at 311@santamonica.gov for applicable fees.

Digital Project Plans

■ Plans for Planning Permits must include:

- Detailed project description and vicinity map.
- Existing site plan showing all existing improvements and structures.
- Site plan showing compliance with development standards, applicable setbacks etc.
- Fully dimensioned floor plans indicating square feet and interior layout. Please show floor area calculations. In the case of remodeling, existing and proposed dimensioned floor plans, as well as a demolition plan, are required.
- Dimensioned exterior elevations of the proposed Project and adjacent existing buildings. Exterior elevations must show the height of each building dimensioned from Average Natural Grade (ANG), Segmented Average Natural Grade (SANG), or Theoretical Grade (TG), as applicable. Height calculation methodology must be shown as described in SMMC 9.04.050, Measuring Height. Elevation measurements, accompanied by a survey of existing site conditions, must be certified by a licensed surveyor or engineer. In the case of additions to existing buildings, all exterior elevations of both the addition and the existing building are required.
- Cross-section and longitudinal sections calling out building heights, height projections, and all building levels in relation to ANG, ANG, or TG.
- Show size and location of any exterior mechanical equipment on both site plan and elevations. Indicate existing buildings on adjacent parcels and their zoning and use (commercial, residential, etc.)
- Other such information, drawings, plans, and renderings that may be helpful.

Community Meeting *(See page 7)*

■ Signed declaration certifying that a community meeting with property owners and tenants within a 750-foot radius of the proposed Project has been conducted prior to submittal of this application, pursuant to SMMC 9.39.050(A).

****Application will not be accepted until this requirement is complete. ****

PERMIT APPLICATION SUBMITTAL REQUIREMENTS

Rent Control Status Form

■ Contact Rent Control: rentcontrol@santamonica.gov.

Replacement Unit Determination Form

☐ Pursuant to the Housing Crisis Act of 2019 (SB8/SB330), housing development projects on sites that have demolished dwelling units in the last 5 years or proposing the demolition of dwelling units must complete and provide a supplemental Replacement Unit Determination Form.

Demolition Permit Acknowledgement (For Structures 40 Years or Older)

Pursuant to SMMC 9.25.040(E) a demolition permit is required for demolition of any building or structure on the property (primary or accessory structure). For buildings or structures constructed more than 40 years ago no entitlement will be accepted until at least 75 days after a complete demolition permit application is accepted. A Landmark or Structure of Merit Designation Application may be filed during this 75-day review period, and the Landmarks Commission may subsequently designate the property (structure and/or parcel) as a Landmark, Landmark Parcel, or Structure of Merit in accordance with and based on findings established in SMMC 9.56 and 9.58.

☐ My property contains a structure (or structures) 40 years old or older and the proposed development of this property will require a demolition permit.

■ My application for a demolition permit has been submitted and, no formal historic designation application has been filed during the 75-day review period.

****Application will not be accepted until this requirement is complete. ****

Acknowledgement Regarding Use of Rental Units

■ In accordance with Chapter 6.22 Residential Leasing Requirements:

i. All leases shall be made only to a tenant who is a natural person or to tenants who are natural persons;
ii. All leases shall be made only to a tenant or tenants who, regardless of the term of occupancy, intend to make the rental unit the tenants' primary residence as defined by SMMC 6.22.020(C)
iii. All prospective tenants shall be offered a written lease which has a minimum term of one (1) year; and
iv. All units shall be leased as unfurnished units.

Transportation Demand Management

■ A PDF copy of a draft Transportation Demand Management (TDM) Plan, if applicable, in accordance with the requirements of SMMC Section 9.53.

A draft TDM Plan is required if the Project meets the requirements of its respective project type:

- *Residential Projects: 16 or more residential units.*
- *Mixed-use Projects: 16 or more residential units with any associated nonresidential floor area or 7,500 sf or more of nonresidential floor area with any number of residential units.*

PERMIT APPLICATION SUBMITTAL REQUIREMENTS

OAKS INITIATIVE DISCLOSURE FORM

***** Required for all Applications *****

Pursuant to City Charter Article XXII, The Taxpayer Protection Amendment of 2000, the applicant is required to disclose all of its trustees, directors, partners, officers, and those with more than a ten percent (10%) equity, participation or revenue interest in Applicant / Contractor.

Identify the names of the following individuals

Applicant / Contractor:

1640 5th Street, LLC

Trustees, directors, partners, officers of the Applicant / Contractor (attach additional sheets if necessary):

See attached LLC Agreement

Those with more than a 10% equity, participation or revenue interest in Applicant / Contractor (attach additional sheets if necessary):

DECLARATION CERTIFYING COMMUNITY MEETING

As required by SMMC 9.39.050(A), prior to submittal of an Administrative Approval application, project applicant shall conduct a virtual community meeting. The meeting shall be noticed and conducted pursuant to the following:

☑ Create a project website accessible to the public providing the following information:
- Project description including, but not limited to, commercial and residential floor area, height, number of market rate and affordable units, and number of parking spaces.
- Project plans including, but not limited to, site plan, floor plans, elevations, renderings.
- Date & time of community meeting, along with clear instructions on how to participate.
- Applicant contact information provided on the home page of the website.

☑ 14 days prior to the meeting, applicant shall mail notifications inviting property owners and tenants within a 750-foot radius of the proposed project site and all neighborhood organizations to the meeting. Notifications must include, but are not limited to, the following:
- Project website address (must be active/complete at time of mailing)
- Applicant contact information (including a monitored email address active at time of mailing)
- Time, date, and instructions on how to attend the meeting.

☑ Notify City Planning Division 14 days prior to the meeting: Send an email to planningcomment@santamonica.gov. Please include the community meeting date/time, link to project website, and copy of the mailed notification.

☑ Post project site 14 days prior to the meeting (see page 8).

☑ Provide for a minimum capacity ensuring that all noticed parties may attend.

☑ Meeting must be scheduled during the following timeframe: Monday through Thursday during the hours of 6:00 PM to 9:00 PM. The meeting cannot be hosted at the same time as a City Council or Planning Commission meeting. An alternative proposal may be approved by the Community Development Director if it can be demonstrated that the alternative would increase community access to the meeting.

☑ Present one or more schematic design options for the proposed project.

☑ Allow public comment on the proposed project from time notifications are sent to at least one week after the community meeting.

☑ Incorporate comments from the meeting and online comment period into the proposed project design to the extent feasible.

At time of application submittal, the following must be provided to show proof of community meeting:

☑ Project website: https://www.1640fifth.com/

☑ Community meeting information:

- Date: July 8, 2024
- Time: 6:00 PM
- Meeting link: https://urldefense.com/v3/__https://us06web.zoom.us/j/84889511878?pwd=Y0OQMybQqJ4TDz9cBMhgUoHwGUES3T.1__;!!BeJLKi7IT7G1Gk-P1kuMua!
- Photo of site posting.

☑ Address list of all property owners and tenants within a 750-radius of the proposed project.

☑ Copy of written notice sent to property owners and tenants.

☑ Schematic design option(s) presented at community meeting.

☑ Written summary of all comments received at community meeting and during comment period and a narrative of how and if comments were addressed in the proposed project.

I hereby certify that I am the Applicant of the subject project and that I have reviewed the subject Community Meeting Declaration and declare, under penalty of making a false declaration, that to the best of my knowledge and belief, the information provided within this application is true, correct, complete, and made in good faith.

1640 5th Street, LLC
Applicant Name (Print)

9/5/24
Applicant Signature / Date

EXAMPLE OF REQUIRED SITE POSTING

4 Feet

City of Santa Monica

NOTICE OF PENDING ADMINISTRATIVE APPROVAL

Site Address: _____

Proposed Project: *Describe the project including uses, size, number of stories, number of units, number parking spaces and any requested variances or modifications etc...*

3 Feet

Applicant: _____

Address: _____

Contact Information: *Phone number & email address.*

Meeting Date: _____ at: _____AM/PM

Project Website: _____

Comment Start Date: _____ End Date: _____

ATTACH COLOR RENDERING OF PROJECT HERE

For additional information, email the Santa Monica Planning Division at planning@santamonica.gov
Para más información, favor mandar un correo electrónico a planning@santamonica.gov

ASB 1640 5TH STREET HOLDINGS, LLC

LIMITED LIABILITY COMPANY AGREEMENT

This Limited Liability Company Agreement of ASB 1640 5th Street Holdings, LLC is entered into as of April 2, 2012 (the "Effective Date") by ASB Allegiance Investments, LLC, a Delaware limited liability company ("ASB Investments").

Exhibit B

Officers of the Company

President	Robert Bellinger
Managing Director	David T. Quigley
Managing Director	H. James Darcey
Vice President	Sherri Lewis
Vice President	Nicolas Franzetti

July 12, 2024

Rand Paster Nelson LLP
633 West Fifth Street, Suite 5880
Los Angeles, California 90071
Attn: Dave Rand

Re: 1640 5th Street - Highway Health Risk Exposure Evaluation

Mr. Rand:

Per your request, Air Quality Dynamics has prepared a Highway Health Risk Exposure Evaluation to assess on-road mobile source emissions generated from the California Interstate 10 (Santa Monica) freeway to identify Project design features which will reduce exposure to diesel particulate matter (DPM) below the cancer risk threshold of 10 in one million (10E-06) established by the South Coast Air Quality Management District (SCAQMD).

A review of the Project's property profile indicates that the site is located within the City of Santa Monica's Air Quality Assessment Zone (AQAZ) whereby interior air quality protection is required pursuant to mitigation measure AQ-1 outlined in the City of Santa Monica's 6th Cycle 2021-2029 Housing Element Update. Of most relevance are enhanced heating, ventilation and air conditioning (HVAC) filtration requirements which must be identified and applied to Project design to reduce DPM exposures. Although stated as "not required" building design and massing should also consider locating outdoor amenities such as courtyards and common areas away from freeway emission sources.

In response to the above AQAZ guidance, the exposure evaluation provides discrete HVAC building filtration requirements in a manner consistent with the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Standard 52.2 for the 0.3 to 1.0 micrometer (□m) particle size range. Additionally, as DPM does not have acute exposure thresholds (i.e., 1 and 8-hour), an evaluation of criteria pollutants generated from mobile source activity (i.e., carbon monoxide and nitrogen dioxide), which have short term ambient air quality thresholds, were assessed to address outdoor exposures to characterize the impact to residents who utilize the Project's available outdoor amenities.

The assessment and dispersion modeling methodologies used in the preparation of this report were composed of all relevant procedures presented by the U.S. Environmental Protection Agency, California Environmental Protection Agency and SCAQMD. The methodologies and assumptions offered under this regulatory guidance were used to ensure that the exposure evaluation effectively quantified pollutant exposures associated with the generation of contaminant emissions from adjacent mobile source activity. This report summarizes the protocol used to evaluate contaminant exposures and presents the results of the Highway Health Risk Exposure Evaluation.

Site Description

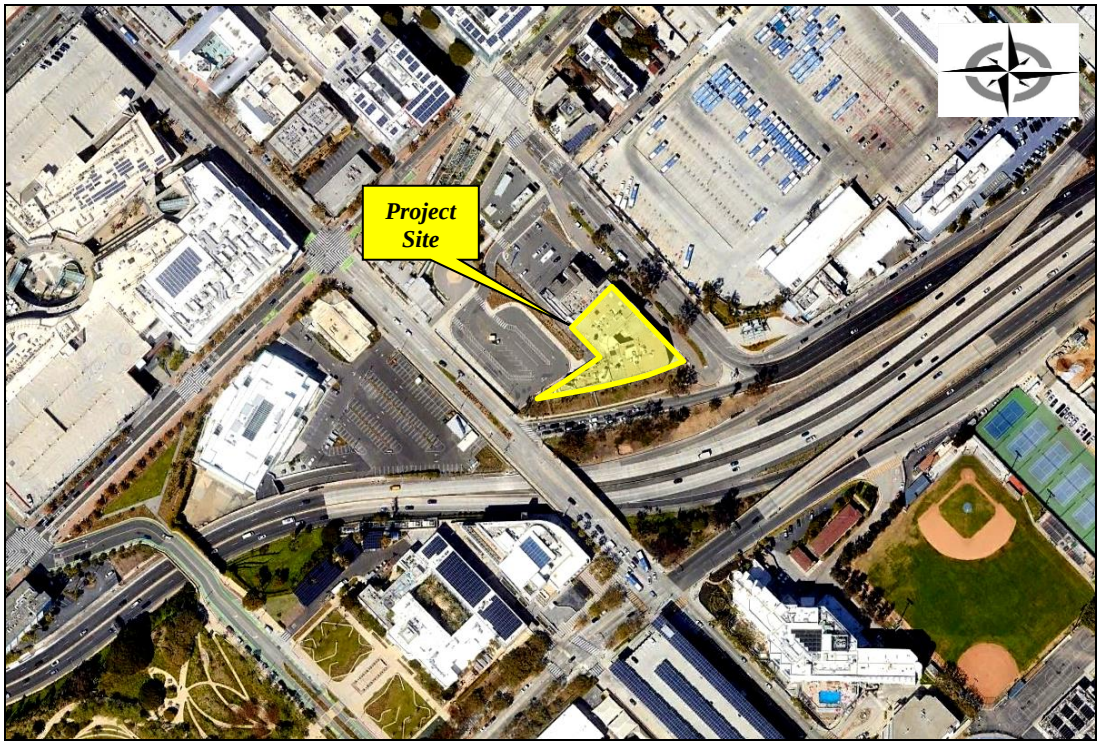
The Project proposes the demolition of an existing 27,176 square foot commercial office building to accommodate the construction of a residential development consisting of 132 dwelling units (117 market rate and 15 dedicated to affordable housing). The dwelling units would be distributed throughout 8 stories across 123,600 square feet of gross floor area with available subterranean parking. Ground floor, second level patio and roof deck amenity space are additionally proposed.

Notwithstanding the City of Santa Monica's AQAZ requirements, the Project is subject to the incorporation of enhanced building filtration equal to or greater than a minimum efficiency reporting value (MERV) rating of 13 in accordance with the energy efficiency standards of the California Building Standards Code (Title 24, Part 6).

The Project is located at 1640 5th Street situated on an approximate 0.51 acre parcel with an adjoining 4 story office building to the north, California Interstate 10 freeway to the south, Big Blue Bus transit facility to the east and surface parking to the west. The site is located within the City of Santa Monica's Downtown Community Plan (DCP) Transit Adjacent (TA) - Gateway Master Plan Area.

It is anticipated that the Project will begin construction in the second quarter of 2026 with completion and subsequent occupancy within the first quarter of 2028. Figure 1 presents an aerial photograph of the Project location and adjoining community.

Figure 1
Site Location /Vicinity Aerial Photograph



Source Identification

The California Department of Transportation (Caltrans) Performance Measurement System (PeMS) collects and maintains traffic information for roadways traversing the California state highway system. PeMS is a data management system that stores and processes raw data in real time. PeMS can be accessed via an internet browser and contains a series of built-in analytical capabilities to support the elucidation of a variety of analytical scenarios allowing users to query both current and archived freeway performance data. For this analysis, aggregate time series data for 2019 was utilized as the most recent (pre-pandemic) and complete calendar year to represent traffic volume (flow) and vehicle speeds to accommodate an assessment of chronic (long term), and short duration (i.e., 1 and 8-hour) exposures.

Caltrans also collects and maintains traffic volume counts for freeway on/off ramps and adjoining segments. Due to the paucity of this information in the PeMS database, the Traffic and Vehicle Data Systems Unit database was reviewed to obtain representative traffic volumes for these discrete roadway segments.

Based upon arithmetic average traffic flows identified in the PeMS database and population profiles noted above, average hourly traffic volumes for the east and westbound California Interstate 10 (Santa Monica) freeway segments located at postmile 2.33 (Lincoln Boulevard) were identified. Reported ramp volumes were averaged to produce an hourly traffic profile. Table 1 presents the identified hourly traffic volumes.

Table 1
Average Hourly Traffic Volumes

Roadway Segment	Traffic Volumes	
	All	Diesel
California Interstate 10 Eastbound	2417	83
California Interstate 10 Westbound	1876	64
Southbound On 4th Street	846	29
Northbound Off 4th Street	1125	39
Southbound Off Lincoln Boulevard	144	5
Northbound On Lincoln Boulevard	175	6

Source Characterization

In urban communities, vehicle emissions contribute significantly to localized concentrations of air contaminants. Typically, emissions generated from these sources are characterized by vehicle mix, the rate pollutants are generated during the course of travel and the number of vehicles traversing the roadway network.

Currently, emission factors are generated from a series of computer-based programs to produce a composite emission rate for vehicles traveling at various speeds within a defined geographical

area or along a discrete roadway segment. To account for the emission standards imposed on the California fleet, the California Air Resources Board (CARB) has developed the EMFAC2021 emission factor model. EMFAC2021 was utilized to identify pollutant emission rates for diesel particulates (DPM), carbon monoxide (CO) and nitrogen oxide (NO_x) compounds. To produce a representative vehicle fleet distribution, the assessment utilized CARB's Los Angeles County (South Coast) population estimates for the proposed Project occupancy year of 2028. Table 2 lists the identified fleet mix considered in the evaluation.

Table 2
Vehicle Fleet Mix Profile

Vehicle Class	Los Angeles (SC)		
	Fuel	Population	Percent
Light Duty Auto (LDA)	Diesel	5730	0.080
Light Duty Auto (LDA)	Electricity	242134	3.372
Light Duty Auto (LDA)	Gasoline	3140409	43.735
Light Duty Auto (LDA)	Plug-in Hybrid	112009	1.560
Light Duty Truck (LDT1)	Diesel	28	0.000
Light Duty Truck (LDT1)	Electricity	1851	0.026
Light Duty Truck (LDT1)	Gasoline	295790	4.119
Light Duty Truck (LDT1)	Plug-in Hybrid	1410	0.020
Light Duty Truck (LDT2)	Diesel	5838	0.081
Light Duty Truck (LDT2)	Electricity	24770	0.345
Light Duty Truck (LDT2)	Gasoline	1698089	23.649
Light Duty Truck (LDT2)	Plug-in Hybrid	23930	0.333
Light Heavy Duty Truck (LHDT1)	Diesel	66273	0.923
Light Heavy Duty Truck (LHDT1)	Electricity	7079	0.099
Light Heavy Duty Truck (LHDT1)	Gasoline	123515	1.720
Light Heavy Duty Truck (LHDT2)	Diesel	30780	0.429
Light Heavy Duty Truck (LHDT2)	Electricity	1843	0.026
Light Heavy Duty Truck (LHDT2)	Gasoline	18493	0.258
Motorcycle (MCY)	Gasoline	160132	2.230
Medium Duty Vehicle (MDV)	Diesel	11427	0.159
Medium Duty Vehicle (MDV)	Electricity	25830	0.360
Medium Duty Vehicle (MDV)	Gasoline	988546	13.767
Medium Duty Vehicle (MDV)	Plug-in Hybrid	14652	0.204
Motor Home (MH)	Diesel	5982	0.083
Motor Home (MH)	Gasoline	13738	0.191
Medium Heavy Duty Truck (MHDT)	Diesel	62608	0.872
Medium Heavy Duty Truck (MHDT)	Electricity	2743	0.038
Medium Heavy Duty Truck (MHDT)	Gasoline	13309	0.185
Medium Heavy Duty Truck (MHDT)	Natural Gas	1070	0.015
Heavy Heavy Duty Truck (HHDT)	Diesel	57258	0.797
Heavy Heavy Duty Truck (HHDT)	Electricity	1492	0.021
Heavy Heavy Duty Truck (HHDT)	Gasoline	25	0.000

Table 2 continued
Vehicle Fleet Mix Profile

Vehicle Class	Los Angeles (SC)		
	Fuel	Population	Percent
Heavy Heavy Duty Truck (HHDT)	Natural Gas	6601	0.092
Other Bus (OBUS)	Diesel	2291	0.032
Other Bus (OBUS)	Electricity	80	0.001
Other Bus (OBUS)	Gasoline	3248	0.045
Other Bus (OBUS)	Natural Gas	383	0.005
School Bus (SBUS)	Diesel	1342	0.019
School Bus (SBUS)	Electricity	113	0.002
School Bus (SBUS)	Gasoline	1491	0.021
School Bus (SBUS)	Natural Gas	1729	0.024
Urban Bus (UBUS)	Diesel	0	0.000
Urban Bus (UBUS)	Electricity	441	0.006
Urban Bus (UBUS)	Gasoline	432	0.006
Urban Bus (UBUS)	Natural Gas	3554	0.049

The MROUND function in Excel, which returns a number rounded to the nearest multiple, was utilized to produce average route speeds based upon the arithmetic average of hourly speeds reported in the PeMS database. For the east and westbound freeway segments, average route speeds of 60 miles per hour were identified. For on and off ramps, the modal emission algorithm from the California Line Source Dispersion Model Caline4 was used to account for both accelerating and decelerating vehicles along these roadway segments. For this evaluation, initial route speeds of 45 and 5 miles per hour were utilized to characterize ramp acceleration and deceleration modes, respectively.

Attachment C presents the emission rate calculation worksheets for the freeway segments considered in the evaluation.

Exposure Quantification

In order to assess the impact of emitted compounds on individuals who reside within and/or access common areas throughout the Project area, air quality modeling utilizing the American Meteorological Society (AMS)/EPA Regulatory Model (AERMOD) was performed to assess the downwind extent of freeway mobile source emissions located within 1,000 feet of the project site. AERMOD is a steady-state Gaussian plume model applicable to directly emitted air pollutants that employs best state-of-practice parameterizations for characterizing meteorological influences and atmospheric dispersion. AERMOD is the U.S. Environmental Protection Agency's guideline model for the assessment of near-field pollutant dispersion.

The model offers additional flexibility by allowing the user to assign initial vertical and lateral dispersion parameters for sources representative of a localized mobile fleet. For this evaluation,

the volume source algorithm was utilized to model the emissions generated from mobile source activity and were represented as approximate sources whereby separation distances did not exceed twice the width of the roadway link and maintained a lateral dimension plus one meter to the nearest receptor location. Vertical (sigma z) dispersion parameters were developed for each source location by approximating mixing zone residence time and quantifying the initial vertical term as performed in the California Line Source Dispersion Model Caline3. The horizontal (sigma y) parameters were generated by dividing the source separation distance by a standard deviation of 2.15.

The Ambient Ratio Method 2 (ARM2), which is based on an evaluation of NO_2/NO_x ratios from the U.S. Environmental Protection Agency's Air Quality System (AQS) record of ambient air quality data, was used to assess the impacts of NO_2. The U.S. Environmental Protection Agency reports that results from ARM2 simulations are more conservative relative to the Tier 3 methods associated with the ozone limiting (OLM) and plume volume molar ratio (PVMRM) methods currently recommended in the Guideline on Air Quality Models, Appendix W. For this analysis, the ARM2 default minimum and maximum NO_2/NO_x ratios of 0.5 and 0.9 were incorporated into the model simulation.

The modeling analysis also considered the spatial distribution of mobile source activity in relation to the proposed site. To accommodate a Cartesian grid format, direction dependent calculations were obtained by identifying the universal transverse mercator (UTM) coordinates for each volume source location. On-site receptors were uniformly placed to provide coverage across the identified Project boundary commensurate with residential uses and areas of common access. Terrain height adjustments were incorporated into the modeling exercise to account for the discrepancy in source elevations and the identified grade plane across the Project site. Graphical representations of the mobile source and receptor grid networks are presented in Figures 2 and 3.

Figure 2
Mobile Source Grid Network

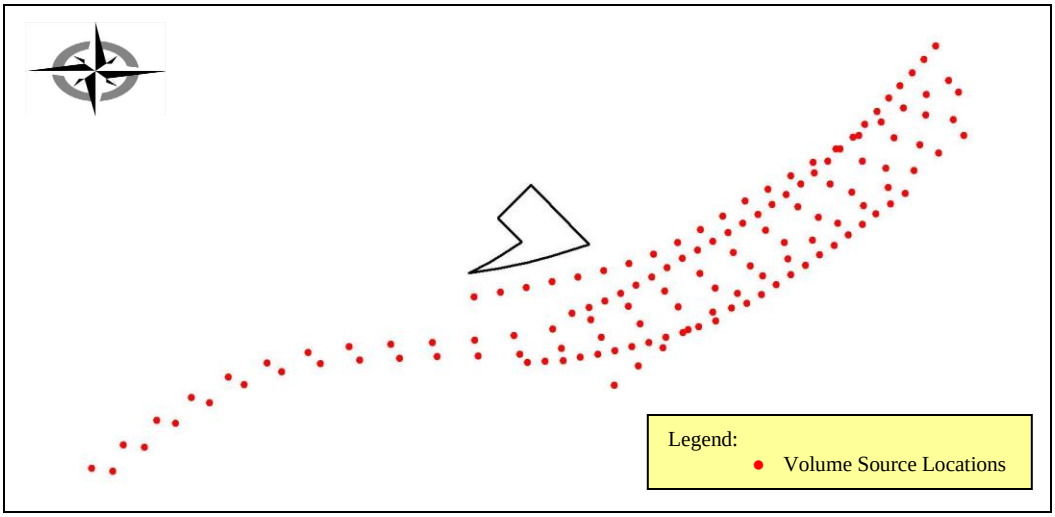
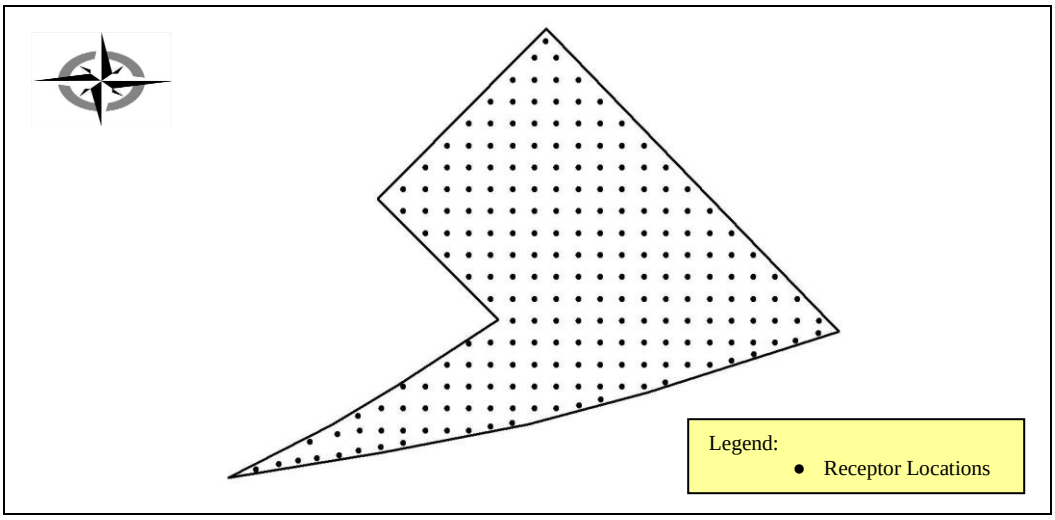


Figure 3
Receptor Grid Network



Air dispersion models require additional input parameters including pollutant emission data and local meteorology. Due to their sensitivity to individual meteorological parameters such as wind speed and direction, the U.S. Environmental Protection Agency recommends that meteorological data used as input into dispersion models be selected on the basis of relative spatial and temporal conditions that exist in the area of concern. In response to this recommendation, meteorological data from the SCAQMD Santa Monica Airport monitoring station (Source Receptor Area 2) which is located 2.47 miles northeast of the Project site was used to represent local weather conditions and prevailing winds. For CO and NO_2 exposures, five years of available AERMOD meteorological data were utilized to identify the highest pollutant concentrations. For DPM exposures, maximum concentrations were produced by incorporating all five years of available data.

In a manner consistent with the City of Santa Monica's Health Risk Assessment Report (June 2021), the dispersion analysis incorporated time-of-day adjustments (HROFDY) to the average vehicle counts presented above to accommodate variable traffic flow as reported in the PeMS database. Vehicle time-of-day adjustment factors for the east and westbound freeway segments are presented in Attachment D. A dispersion model input table is provided in Attachment E. A listing of model output summary files are provided in Attachment F.

Risk Characterization

For chronic exposures, concentration estimates for residential receptors are considered static whereby exposures are assumed to be continuous. Short duration exposures apply to all receptor locations including common areas such as outdoor patios and related amenities since it is reasonable to assume that an individual could be present for periods of one to eight hours.

Carcinogenic Chemical Risk

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. As a result, the SCAQMD has established a maximum incremental cancer risk which meets or exceeds a threshold of 10 in one million (10E-06) for projects prepared under the California Environmental Quality Act (CEQA). This threshold is also consistent with the State of California as a level posing no significant risk for exposures to carcinogens regulated under the Safe Drinking Water and Toxic Enforcement Act (Proposition 65).

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper-bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu g/m^3$) over a 70-year lifetime. The URF utilized in the assessment and corresponding cancer potency factors were obtained from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values*.

To effectively quantify dose, lifetime risk values were adjusted to account for an exposure frequency of 350 days per year for a period of 30 years (i.e., 0.25 years for the third trimester, 2 years for ages 0 to 2 years, 14 years for ages 2 to 16 years and 14 years for ages 16 to 30 years).

Point estimates for daily breathing rates recommended by CARB and the California Air Pollution Control Officers Association (CAPCOA) for chronic exposures representing the 95th percentile of 361 L/kg-day, 1090 L/kg-day, and the 80th percentile of 572 L/kg-day and 261 L/kg-day for the identified age groups were utilized and incorporated into the following dose algorithm.

$$Dose_{air} = C_{air} \times \{BR/BW\} \times A \times EF \times 10^{-6}$$

Where:

$Dose_{air}$	=	*dose through inhalation (mg/kg/day)*
C_{air}	=	*concentration of contaminant in air ($\mu g/m^3$)*
$\{BR/BW\}$	=	*daily breathing rate normalized to body weight (L/kg body weight/day)*
A	=	*inhalation absorption factor (unitless)*
EF	=	*exposure frequency (days/365 days)*
10^{-6}	=	*micrograms to milligrams conversion*

The above inhalation dose estimates, corresponding age sensitivity factors (i.e., 10 for the third trimester and ages 0 to 2 years, 3 for ages 2 to 16 years and 1 for ages 16 to 30 years) and residential fractional adjustments (i.e., 0.85 for the third trimester and ages 0 to 2 years, 0.72 for ages 2 to 16 years and 0.73 for ages 16 to 30 years) were incorporated into the following

equation to produce carcinogenic risk estimates for ages commensurate with the reported exposure durations.

$$Risk_{inh} = Dose_{air} \times CPF \times ASF \times ED/AT \times FAH$$

Where:

$Risk_{inh}$	=	*inhalation cancer risk*
$Dose_{air}$	=	*daily inhalation dose (mg/kg/day)*
CPF	=	*inhalation cancer potency factor* ($mg/kg/day^{-1}$)
ASF	=	*age sensitivity factor for the specified age group (unitless)*
ED	=	*exposure duration for specified age group (years)*
AT	=	*averaging time (years)*
FAH	=	*fraction of time at home (unitless)*

Table 3 presents the carcinogenic risk estimates for the maximum exposed residential receptors associated for each floor level and associated MERV filtration rating. Attachment A provides graphical representations for the first and second floor levels which depict the individual dwelling units requiring MERV 14 filtration. Attachment B, Tables B1 through B32 present the calculation worksheets used to derive carcinogenic risk estimates for the maximum exposed residential receptors for each identified floor level.

Table 3
Carcinogenic Risk / Maximum Exposed Residential Receptors

Floor Level	MERV Filtration	Risk
First	14	5.5E-06
Second	14	5.1E-06
Third	13	8.0E-06
Fourth	13	5.2E-06
Fifth	13	3.3E-06
Sixth	13	2.2E-06
Seventh	13	1.5E-06
Eighth	13	1.0E-06

Note: 5.5E-06, 5.1E-06, 8.0E-06, 5.2E-06, 3.3E-06, 2.2E-06, 1.5E-06 and 1.0E-06 denote cases of cancer of 5.5, 5.1, 8.0, 5.2, 3.3, 2.2, 1.5 and 1.0 in one million (1,000,000) individuals exposed.

Criteria Pollutant Exposures

The State of California has promulgated strict ambient air quality standards for various pollutants. These standards were established to safeguard the public's health and welfare with specific emphasis on protecting those individuals susceptible to respiratory distress, such as asthmatics, the young, the elderly and those with existing conditions which may be affected by increased pollutant concentrations. However, research has shown that unhealthful respiratory responses occur with exposures to pollutants at levels that only marginally exceed clean air standards. Table 4 presents the California Ambient Air Quality Standards (CAAQS) for the criteria pollutants considered in the assessment.

Table 4
California Ambient Air Quality Standards

Pollutant	Standard	Health Effects
Carbon Monoxide (CO)	>9.0 ppm (8-hr avg.) >20.0 ppm (1-hr avg.)	1) Aggravation of angina pectoris and other aspects of coronary heart disease. 2) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease. 3) Impairment of central nervous system functions. 4) Possible increased risk to fetuses.
Nitrogen Dioxide (NO_2)	>0.18 ppm (1-hr avg.)	1) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups. 2) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes.

Abbreviations: ppm: parts per million.
Source: California Code of Regulations, Title 17, Section 70200.

Pollutant emissions are considered to have a significant effect on the environment if they result in concentrations that create either a violation of an ambient air quality standard, contribute to an existing air quality violation or expose sensitive receptors to substantive pollutant concentrations. Should ambient air quality already exceed existing standards, the SCAQMD has established significance criteria for selected compounds to account for the continued degradation of local air quality. Background concentrations are based upon the highest observed value for the most recent three-year period.

For the CO 1 and 8-hour averaging times and the NO_2 1-hour averaging time, background concentrations are below current air quality standards. As such, significance is achieved when pollutant concentrations add to existing levels and create an exceedance of the CAAQS.

Table 5 shows the pollutant concentrations collected at the Northwest Coastal and Central Los Angeles monitoring stations for the last three years of available data. Table 6 outlines the relevant significance thresholds considered to affect local air quality.

Table 5
Air Quality Monitoring Summary

Pollutant/ Averaging Time	Year			
	2021	2022	2023	Maximum
Carbon Monoxide (CO) 1-Hour 8-Hour	1.5 1.0	1.7 1.5	1.4 1.2	1.7 1.5
Nitrogen Dioxide (NO_2) 1-Hour	0.0606	0.0514	0.0439	0.0606

Note: Concentrations are expressed in parts per million (ppm).
Source: South Coast Air Quality Management District. Historical Data by Year.

Table 6
SCAQMD Air Quality Significance Thresholds

Pollutant	Averaging Time	Pollutant Concentration
Carbon Monoxide (CO)	1/8-Hours	SCAQMD is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standards of 20 ppm (1-hour) and 9 ppm (8-hour).
Nitrogen Dioxide (NO_2)	1-Hour	SCAQMD is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standard of 0.18 ppm.

Abbreviations: ppm: parts per million.
Source: South Coast Air Quality Management District.

The maximum modeled 1-hour concentration for CO of 0.18844 parts per million (ppm) (215.80201 $\mu g/m^3$) when added to an existing background concentration of 1.7 ppm, will not cause an exceedance of the CAAQS of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.12145 ppm (139.08569 $\mu g/m^3$) when added to an existing background level of 1.5 ppm, does not cause an exceedance of the CAAQS of 9 ppm.

For NO_2, the maximum 1-hour concentration of 0.01179 ppm (22.18177 $\mu g/m^3$) was predicted. This concentration, when added to a background concentration of 0.0606 ppm, will not cause an exceedance of the CAAQS of 0.18 ppm.

Conclusion

In comparison to the threshold level referenced above, carcinogenic risk estimates for the maximum exposed residential receptors did not meet or exceed the significance threshold of ten in one million (10E-06) for the 30-year exposure scenario. These findings presume adherence to mitigation measure AQ-1 outlined in the City of Santa Monica's 6th Cycle 2021-2029 Housing Element Update and compliance with California's Building Standards Code (Title 24, Part 6) which limits the infiltration of particulate emissions by installing and maintaining air filtration systems which meet and/or exceed MERV 13 filter efficiencies as defined by the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Standard 52.2.

Table 7 outlines the removal efficiencies for each particle size range for the reported MERV filter classifications.

Table 7
Minimum Efficiency Reporting Value (MERV)
Particle Removal Efficiency (%)

MERV	Particle Size Range DPM (0.3-1.0 µm)
13	50
14	75

Note: Particle size ranges are expressed in micrometers or microns (µm) equal to 0.001 mm (0.000039 inch) and is a common unit of measure to express the thickness or diameter of microscopic objects.

For criteria pollutant exposures, maximum predicted CO and NO_2 concentrations, when added to existing background levels, did not exceed their respective ambient air quality standards whereby consideration to amend building design limiting outdoor exposures and amenity access is not warranted.

I can be reached at (818) 703-3294 should you have any questions or need additional information.

Sincerely,

Bill Piazza

Attachment A MERV Filtration Graphical Representations
Attachment B Carcinogenic Risk Calculation Worksheets
Attachment C Emission Rate Calculation Worksheets
Attachment D Vehicle Time-of-Day Adjustment Factors
Attachment E Dispersion Model Input Table
Attachment F Dispersion Model Output Summary Files
Attachment G List of References

Attachment A

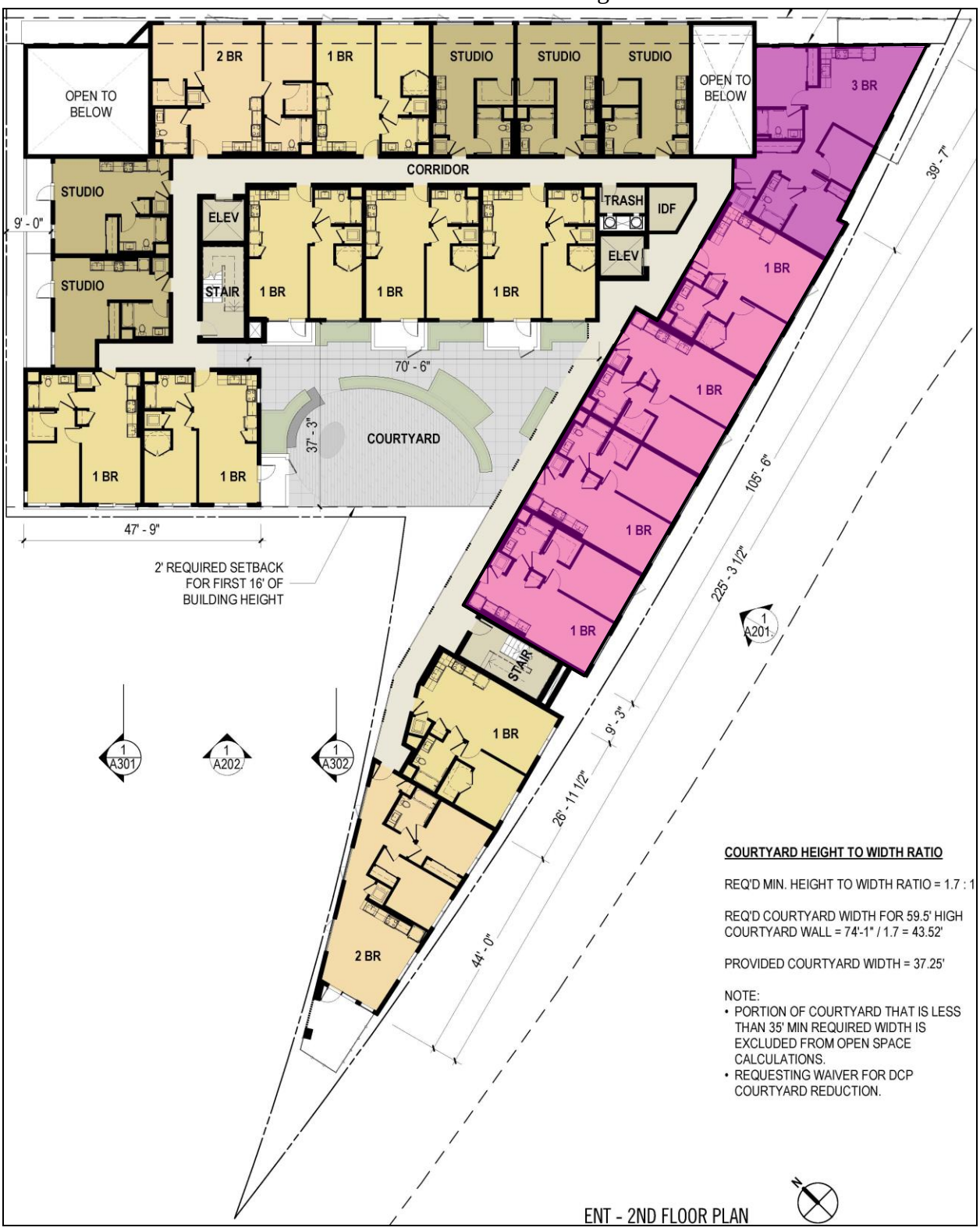
MERV Filtration Graphical Representations

Figure A
Dwelling Units (DUs) / First Floor
Filtration Removal Design

Legend:

DUs with MERV 14 Filtration

Figure B
Dwelling Units (DUs) / Second Floor
Filtration Removal Design



Legend:
DUs with MERV 14 Filtration

Attachment B

Carcinogenic Risk Calculation Worksheets

Table B1
Third Trimester Exposure Scenario / Maximum Receptor Location / First Level w/MERV 14 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00935	9.35E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	3.2E-06	1.1E-07
TOTAL								1.1E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B2
0-2 Year Exposure Scenario / Maximum Receptor Location / First Level w/MERV 14 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00935	9.35E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	9.8E-06	2.6E-06
TOTAL								2.6E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B3
2-16 Year Exposure Scenario / Maximum Receptor Location / First Level w/MERV 14 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00935	9.35E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	5.1E-06	2.4E-06
TOTAL								2.4E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor	3

Table B4
16-30 Year Exposure Scenario / Maximum Receptor Location / First Level w/MERV 14 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	($mg/kg/day$)$^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00935	9.35E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	2.3E-06	3.8E-07
TOTAL								3.8E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor	1

TOTAL RISK ALL AGE GROUPS **5.5E-06**

Table B5
Third Trimester Exposure Scenario / Maximum Receptor Location / Second Level w/MERV 14 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00866	8.66E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	3.0E-06	1.0E-07
TOTAL								1.0E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B6
0-2 Year Exposure Scenario / Maximum Receptor Location / Second Level w/MERV 14 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00866	8.66E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	9.1E-06	2.4E-06
TOTAL								2.4E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B7
2-16 Year Exposure Scenario / Maximum Receptor Location / Second Level w/MERV 14 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00866	8.66E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	4.7E-06	2.3E-06
TOTAL								2.3E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor	3

Table B8
16-30 Year Exposure Scenario / Maximum Receptor Location / Second Level w/MERV 14 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00866	8.66E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	2.2E-06	3.5E-07
TOTAL								3.5E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor	1

TOTAL RISK ALL AGE GROUPS **5.1E-06**

Table B9
Third Trimester Exposure Scenario / Maximum Receptor Location / Third Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.01347	1.35E-05	1.0	Diesel Particulate	3.0E-04	1.1E+00	4.7E-06	1.6E-07
TOTAL								1.6E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B10
0-2 Year Exposure Scenario / Maximum Receptor Location / Third Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.01347	1.35E-05	1.0	Diesel Particulate	3.0E-04	1.1E+00	1.4E-05	3.8E-06
TOTAL								3.8E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B11
2-16 Year Exposure Scenario / Maximum Receptor Location / Third Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.01347	1.35E-05	1.0	Diesel Particulate	3.0E-04	1.1E+00	7.4E-06	3.5E-06
TOTAL								3.5E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor	3

Table B12
16-30 Year Exposure Scenario / Maximum Receptor Location / Third Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.01347	1.35E-05	1.0	Diesel Particulate	3.0E-04	1.1E+00	3.4E-06	5.4E-07
TOTAL								5.4E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor	1

TOTAL RISK ALL AGE GROUPS **8.0E-06**

Table B13
Third Trimester Exposure Scenario / Maximum Receptor Location / Fourth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00876	8.76E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	3.0E-06	1.0E-07
TOTAL								1.0E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B14
0-2 Year Exposure Scenario / Maximum Receptor Location / Fourth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00876	8.76E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	9.2E-06	2.4E-06
TOTAL								2.4E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B15
2-16 Year Exposure Scenario / Maximum Receptor Location / Fourth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00876	8.76E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	4.8E-06	2.3E-06
TOTAL								2.3E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor	3

Table B16
16-30 Year Exposure Scenario / Maximum Receptor Location / Fourth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00876	8.76E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	2.2E-06	3.5E-07
TOTAL								3.5E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor	1

TOTAL RISK ALL AGE GROUPS **5.2E-06**

Table B17
Third Trimester Exposure Scenario / Maximum Receptor Location / Fifth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00556	5.56E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	1.9E-06	6.4E-08
TOTAL								6.4E-08

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B18
0-2 Year Exposure Scenario / Maximum Receptor Location / Fifth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00556	5.56E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	5.8E-06	1.6E-06
TOTAL								1.6E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B19
2-16 Year Exposure Scenario / Maximum Receptor Location / Fifth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00556	5.56E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	3.0E-06	1.4E-06
TOTAL								1.4E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor	3

Table B20
16-30 Year Exposure Scenario / Maximum Receptor Location / Fifth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00556	5.56E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	1.4E-06	2.2E-07
TOTAL								2.2E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor	1

TOTAL RISK ALL AGE GROUPS **3.3E-06**

Table B21
Third Trimester Exposure Scenario / Maximum Receptor Location / Sixth Level w/MERV 13 Filtraton

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00366	3.66E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	1.3E-06	4.2E-08
TOTAL								4.2E-08

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B22
0-2 Year Exposure Scenario / Maximum Receptor Location / Sixth Level w/MERV 13 Filtraton

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00366	3.66E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	3.8E-06	1.0E-06
TOTAL								1.0E-06

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B23
2-16 Year Exposure Scenario / Maximum Receptor Location / Sixth Level w/MERV 13 Filtraton

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00366	3.66E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	2.0E-06	9.5E-07
TOTAL								9.5E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor	3

Table B24
16-30 Year Exposure Scenario / Maximum Receptor Location / Sixth Level w/MERV 13 Filtraton

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00366	3.66E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	9.2E-07	1.5E-07
TOTAL								1.5E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor	1

TOTAL RISK ALL AGE GROUPS **2.2E-06**

Table B25
Third Trimester Exposure Scenario / Maximum Receptor Location / Seventh Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00248	2.48E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	8.6E-07	2.9E-08
TOTAL								2.9E-08

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B26
0-2 Year Exposure Scenario / Maximum Receptor Location / Seventh Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00248	2.48E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	2.6E-06	6.9E-07
TOTAL								6.9E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B27
2-16 Year Exposure Scenario / Maximum Receptor Location / Seventh Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00248	2.48E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	1.4E-06	6.5E-07
TOTAL								6.5E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor	3

Table B28
16-30 Year Exposure Scenario / Maximum Receptor Location / Seventh Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00248	2.48E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	6.2E-07	1.0E-07
TOTAL								1.0E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor	1

TOTAL RISK ALL AGE GROUPS **1.5E-06**

Table B29
Third Trimester Exposure Scenario / Maximum Receptor Location / Eighth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00175	1.75E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	6.1E-07	2.0E-08
TOTAL								2.0E-08

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B30
0-2 Year Exposure Scenario / Maximum Receptor Location / Eighth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00175	1.75E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	1.8E-06	4.9E-07
TOTAL								4.9E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor	10

Table B31
2-16 Year Exposure Scenario / Maximum Receptor Location / Eighth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00175	1.75E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	9.6E-07	4.6E-07
TOTAL								4.6E-07

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor	3

Table B32
16-30 Year Exposure Scenario / Maximum Receptor Location / Eighth Level w/MERV 13 Filtration

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			
					URF	CPF	DOSE	RISK
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Freeway	0.00175	1.75E-06	1.0	Diesel Particulate	3.0E-04	1.1E+00	4.4E-07	7.0E-08
TOTAL								7.0E-08

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor	1

TOTAL RISK ALL AGE GROUPS **1.0E-06**

Attachment C

Emission Rate Calculation Worksheets

EMFAC2021 Worksheet
(5 mph)

EMFAC2021 Emission Rates
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: Criteria

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	CO_RUNEX (gms/mile)	CO_RUNEX AVE (gms/mile)	NOX_RUNEX (gms/mile)	NOx_RUNEX AVE (gms/mile)
Los Angeles (SC)	2028	Annual	LDA	Dsl	Aggregated	5	5730.385828	0.0008	4.560306626	0.00363935	0.19135958	0.00015271
Los Angeles (SC)	2028	Annual	LDA	Elec	Aggregated	5	242133.5654	0.0337		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LDA	Gas	Aggregated	5	3140409.083	0.4374	1.187638618	0.51941752	0.051602669	0.02256859
Los Angeles (SC)	2028	Annual	LDA	Phe	Aggregated	5	112008.9029	0.0156	0.925401744	0.01443540	0.010346123	0.00016139
Los Angeles (SC)	2028	Annual	LDT1	Dsl	Aggregated	5	28.25879369	0.0000	5.986838762	0.00002356	0.794263311	0.00000313
Los Angeles (SC)	2028	Annual	LDT1	Elec	Aggregated	5	1850.793917	0.0003		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LDT1	Gas	Aggregated	5	295789.8982	0.0412	2.647708878	0.10906857	0.205098667	0.00844875
Los Angeles (SC)	2028	Annual	LDT1	Phe	Aggregated	5	1409.691443	0.0002	0.846693297	0.00016622	0.009448923	0.00000186
Los Angeles (SC)	2028	Annual	LDT2	Dsl	Aggregated	5	5838.43534	0.0008	2.604449375	0.00211767	0.14877881	0.00012097
Los Angeles (SC)	2028	Annual	LDT2	Elec	Aggregated	5	24770.0671	0.0034		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LDT2	Gas	Aggregated	5	1698089.402	0.2365	1.37800086	0.32587879	0.086385978	0.02042913
Los Angeles (SC)	2028	Annual	LDT2	Phe	Aggregated	5	23929.64409	0.0033	0.878832451	0.00292879	0.00981673	0.00003272
Los Angeles (SC)	2028	Annual	LHDT1	Dsl	Aggregated	5	66273.45759	0.0092	0.724290144	0.00668495	1.021324433	0.00942648
Los Angeles (SC)	2028	Annual	LHDT1	Elec	Aggregated	5	7078.582149	0.0010		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LHDT1	Gas	Aggregated	5	123514.8081	0.0172	2.144419501	0.03688713	0.131711532	0.00226563
Los Angeles (SC)	2028	Annual	LHDT2	Dsl	Aggregated	5	30779.95102	0.0043	0.748721198	0.00320948	1.05317063	0.00451453
Los Angeles (SC)	2028	Annual	LHDT2	Elec	Aggregated	5	1843.198599	0.0003		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LHDT2	Gas	Aggregated	5	18493.46928	0.0026	1.634121029	0.00420871	0.145092042	0.00037369
Los Angeles (SC)	2028	Annual	MCY	Gas	Aggregated	5	160132.4304	0.0223	22.5793702	0.50354371	0.748801955	0.01669907
Los Angeles (SC)	2028	Annual	MDV	Dsl	Aggregated	5	11427.46283	0.0016	3.641727091	0.00579566	0.114957742	0.00018295
Los Angeles (SC)	2028	Annual	MDV	Elec	Aggregated	5	25829.54462	0.0036		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	MDV	Gas	Aggregated	5	988545.5796	0.1377	1.596624658	0.21980906	0.122694604	0.01689150
Los Angeles (SC)	2028	Annual	MDV	Phe	Aggregated	5	14652.2037	0.0020	0.880680257	0.00179708	0.009837018	0.00002007
Los Angeles (SC)	2028	Annual	MH	Dsl	Aggregated	5	5981.722201	0.0008	2.159822382	0.00179925	11.63498225	0.00969255
Los Angeles (SC)	2028	Annual	MH	Gas	Aggregated	5	13737.8769	0.0019	1.632103377	0.00312258	0.362944736	0.00069439
Los Angeles (SC)	2028	Annual	MHDT	Dsl	Aggregated	5	62608.21554	0.0087	0.41921938	0.00365526	3.003959596	0.02619217
Los Angeles (SC)	2028	Annual	MHDT	Elec	Aggregated	5	2743.218395	0.0004	0	0.00000000	0	0.00000000
Los Angeles (SC)	2028	Annual	MHDT	Gas	Aggregated	5	13309.14864	0.0019	1.525187604	0.00282696	0.40850699	0.00075717
Los Angeles (SC)	2028	Annual	MHDT	NG	Aggregated	5	1070.013059	0.0001	8.164648666	0.00121667	0.460055625	0.00006856
Los Angeles (SC)	2028	Annual	HHDT	Dsl	Aggregated	5	57257.80612	0.0080	1.035705995	0.00825881	10.35925571	0.08260557
Los Angeles (SC)	2028	Annual	HHDT	Elec	Aggregated	5	1491.868023	0.0002	0	0.00000000	0	0.00000000
Los Angeles (SC)	2028	Annual	HHDT	Gas	Aggregated	5	25.44926558	0.0000	63.90970916	0.00022651	6.321960658	0.00002241
Los Angeles (SC)	2028	Annual	HHDT	NG	Aggregated	5	6600.854666	0.0009	54.22192711	0.04984495	3.301546471	0.00303503
Los Angeles (SC)	2028	Annual	OBUS	Dsl	Aggregated	5	2290.725845	0.0003	1.308205841	0.00041735	7.699893425	0.00245643
Los Angeles (SC)	2028	Annual	OBUS	Elec	Aggregated	5	79.61401844	0.0000		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	OBUS	Gas	Aggregated	5	3248.288828	0.0005	2.094770745	0.00094763	0.572728514	0.00025909
Los Angeles (SC)	2028	Annual	OBUS	NG	Aggregated	5	383.0211138	0.0001	7.745919359	0.00041318	0.657418765	0.00003507
Los Angeles (SC)	2028	Annual	SBUS	Dsl	Aggregated	5	1341.562638	0.0002	1.26546993	0.00023643	13.38152877	0.00250013
Los Angeles (SC)	2028	Annual	SBUS	Elec	Aggregated	5	113.0451849	0.0000	0	0.00000000	0	0.00000000
Los Angeles (SC)	2028	Annual	SBUS	Gas	Aggregated	5	1490.849724	0.0002	1.608641002	0.00033399	0.602184811	0.00012503
Los Angeles (SC)	2028	Annual	SBUS	NG	Aggregated	5	1728.664066	0.0002	79.60858957	0.01916534	4.259393006	0.00102543
Los Angeles (SC)	2028	Annual	UBUS	Dsl	Aggregated	5	0.21774371	0.0000	0.242302734	0.00000001	1.464876631	0.00000004
Los Angeles (SC)	2028	Annual	UBUS	Elec	Aggregated	5	441.1335681	0.0001		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	UBUS	Gas	Aggregated	5	431.6536764	0.0001	0.733215295	0.00004408	0.283516924	0.00001704
Los Angeles (SC)	2028	Annual	UBUS	NG	Aggregated	5	3553.912457	0.0005	82.66360777	0.04091355	2.599859958	0.00128678
							7180488	1.0		1.893		0.233

EMFAC2021 Worksheet
(5 mph)

EMFAC2021 Emission Rates
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: DSL Particulate

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)
Los Angeles (SC)	2028	Annual	□D□	DSL	Aggregated	5	5730.385828	0.0230	0.047633374	0.0011
Los Angeles (SC)	2028	Annual	□D□□	DSL	Aggregated	5	28.25879369	0.0001	0.780700225	0.0001
Los Angeles (SC)	2028	Annual	□D□2	DSL	Aggregated	5	5838.43534	0.0234	0.010176811	0.0002
Los Angeles (SC)	2028	Annual	□□D□□	DSL	Aggregated	5	66273.45759	0.2656	0.050196678	0.0133
Los Angeles (SC)	2028	Annual	□□D□2	DSL	Aggregated	5	30779.95102	0.1233	0.053020693	0.0065
Los Angeles (SC)	2028	Annual	MD□	DSL	Aggregated	5	11427.46283	0.0458	0.01484569	0.0007
Los Angeles (SC)	2028	Annual	M□	DSL	Aggregated	5	5981.722201	0.0240	0.144312199	0.0035
Los Angeles (SC)	2028	Annual	M□D□	DSL	Aggregated	5	62608.21554	0.2509	0.024107518	0.0060
Los Angeles (SC)	2028	Annual	□□D□	DSL	Aggregated	5	57257.80612	0.2294	0.013589549	0.0031
Los Angeles (SC)	2028	Annual	□□□□	DSL	Aggregated	5	2290.725845	0.0092	0.085847823	0.0008
Los Angeles (SC)	2028	Annual	□□□□	DSL	Aggregated	5	1341.562638	0.0054	0.091245572	0.0005
Los Angeles (SC)	2028	Annual	□□□□	DSL	Aggregated	5	0.21774371	0.0000	0.004323689	0.0000
							249558	1.0		0.036

EMFAC2021 Worksheet
(45 mph)

EMFAC2021 Emission Rates
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: Criteria

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	CO_RUNEX (gms/mile)	CO_RUNEX AVE (gms/mile)	NOX_RUNEX (gms/mile)	NOx_RUNEX AVE (gms/mile)
Los Angeles (SC)	2028	Annual	LDA	Dsl	Aggregated	45	5730.385828	0.0008	0.243054773	0.00019397	0.12110814	0.00009665
Los Angeles (SC)	2028	Annual	LDA	Elec	Aggregated	45	242133.5654	0.0337		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LDA	Gas	Aggregated	45	3140409.083	0.4374	0.602410419	0.26346611	0.025962793	0.01135491
Los Angeles (SC)	2028	Annual	LDA	Phe	Aggregated	45	112008.9029	0.0156	0.186503731	0.00290928	0.00250779	0.00003912
Los Angeles (SC)	2028	Annual	LDT1	Dsl	Aggregated	45	28.25879369	0.0000	1.591872729	0.00000626	1.128684081	0.00000444
Los Angeles (SC)	2028	Annual	LDT1	Elec	Aggregated	45	1850.793917	0.0003		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LDT1	Gas	Aggregated	45	295789.8982	0.0412	1.266205136	0.05215951	0.096662368	0.00398187
Los Angeles (SC)	2028	Annual	LDT1	Phe	Aggregated	45	1409.691443	0.0002	0.170640978	0.00003350	0.002290319	0.00000045
Los Angeles (SC)	2028	Annual	LDT2	Dsl	Aggregated	45	5838.43534	0.0008	0.096083713	0.00007813	0.028347923	0.00002305
Los Angeles (SC)	2028	Annual	LDT2	Elec	Aggregated	45	24770.0671	0.0034		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LDT2	Gas	Aggregated	45	1698089.402	0.2365	0.692607417	0.16379240	0.042648711	0.01008585
Los Angeles (SC)	2028	Annual	LDT2	Phe	Aggregated	45	23929.64409	0.0033	0.177118243	0.00059026	0.002379471	0.00000793
Los Angeles (SC)	2028	Annual	LHDT1	Dsl	Aggregated	45	66273.45759	0.0092	0.121427654	0.00112074	0.563970253	0.00520525
Los Angeles (SC)	2028	Annual	LHDT1	Elec	Aggregated	45	7078.582149	0.0010		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LHDT1	Gas	Aggregated	45	123514.8081	0.0172	0.543305243	0.00934564	0.085971469	0.00147883
Los Angeles (SC)	2028	Annual	LHDT2	Dsl	Aggregated	45	30779.95102	0.0043	0.122886116	0.00052676	0.53196468	0.00228033
Los Angeles (SC)	2028	Annual	LHDT2	Elec	Aggregated	45	1843.198599	0.0003		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LHDT2	Gas	Aggregated	45	18493.46928	0.0026	0.406488	0.00104692	0.083812511	0.00021586
Los Angeles (SC)	2028	Annual	MCY	Gas	Aggregated	45	160132.4304	0.0223	10.0669691	0.22450400	0.430901912	0.00960957
Los Angeles (SC)	2028	Annual	MDV	Dsl	Aggregated	45	11427.46283	0.0016	0.152082489	0.00024203	0.052039973	0.00008282
Los Angeles (SC)	2028	Annual	MDV	Elec	Aggregated	45	25829.54462	0.0036		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	MDV	Gas	Aggregated	45	988545.5796	0.1377	0.797196095	0.10975086	0.060723347	0.00835985
Los Angeles (SC)	2028	Annual	MDV	Phe	Aggregated	45	14652.2037	0.0020	0.177490647	0.00036218	0.002384389	0.00000487
Los Angeles (SC)	2028	Annual	MH	Dsl	Aggregated	45	5981.722201	0.0008	0.174947085	0.00014574	2.563833175	0.00213581
Los Angeles (SC)	2028	Annual	MH	Gas	Aggregated	45	13737.8769	0.0019	0.643521231	0.00123120	0.200205808	0.00038304
Los Angeles (SC)	2028	Annual	MHDT	Dsl	Aggregated	45	62608.21554	0.0087	0.049405823	0.00043078	0.520958845	0.00454235
Los Angeles (SC)	2028	Annual	MHDT	Elec	Aggregated	45	2743.218395	0.0004	0	0.00000000	0	0.00000000
Los Angeles (SC)	2028	Annual	MHDT	Gas	Aggregated	45	13309.14864	0.0019	0.743713666	0.00137849	0.211625068	0.00039225
Los Angeles (SC)	2028	Annual	MHDT	NG	Aggregated	45	1070.013059	0.0001	1.792374111	0.00026709	0.06854745	0.00001021
Los Angeles (SC)	2028	Annual	HHDT	Dsl	Aggregated	45	57257.80612	0.0080	0.065575327	0.00052290	1.036289976	0.00826346
Los Angeles (SC)	2028	Annual	HHDT	Elec	Aggregated	45	1491.868023	0.0002	0	0.00000000	0	0.00000000
Los Angeles (SC)	2028	Annual	HHDT	Gas	Aggregated	45	25.44926558	0.0000	30.92477874	0.00010960	3.884052538	0.00001377
Los Angeles (SC)	2028	Annual	HHDT	NG	Aggregated	45	6600.854666	0.0009	7.051252085	0.00648205	0.53853437	0.00049506
Los Angeles (SC)	2028	Annual	OBUS	Dsl	Aggregated	45	2290.725845	0.0003	0.145746989	0.00004650	1.113592743	0.00035526
Los Angeles (SC)	2028	Annual	OBUS	Elec	Aggregated	45	79.61401844	0.0000		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	OBUS	Gas	Aggregated	45	3248.288828	0.0005	0.985336862	0.00044574	0.310579311	0.00014050
Los Angeles (SC)	2028	Annual	OBUS	NG	Aggregated	45	383.0211138	0.0001	1.8877353	0.00010070	0.083239682	0.00000444
Los Angeles (SC)	2028	Annual	SBUS	Dsl	Aggregated	45	1341.562638	0.0002	0.16741642	0.00003128	4.437850263	0.00082914
Los Angeles (SC)	2028	Annual	SBUS	Elec	Aggregated	45	113.0451849	0.0000	0	0.00000000	0	0.00000000
Los Angeles (SC)	2028	Annual	SBUS	Gas	Aggregated	45	1490.849724	0.0002	0.820943665	0.00017045	0.306311878	0.00006360
Los Angeles (SC)	2028	Annual	SBUS	NG	Aggregated	45	1728.664066	0.0002	5.17494904	0.00124584	0.162019528	0.00003901
Los Angeles (SC)	2028	Annual	UBUS	Dsl	Aggregated	45	0.21774371	0.0000	0.036377702	0.00000000	0.099728852	0.00000000
Los Angeles (SC)	2028	Annual	UBUS	Elec	Aggregated	45	441.1335681	0.0001		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	UBUS	Gas	Aggregated	45	431.6536764	0.0001	0.254703462	0.00001531	0.14555436	0.00000875
Los Angeles (SC)	2028	Annual	UBUS	NG	Aggregated	45	3553.912457	0.0005	32.70597312	0.01618750	0.131956976	0.00006531
							7180488	1.0		0.859		0.071

EMFAC2021 Worksheet
(45 mph)

EMFAC2021 Emission Rates
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: DSL Particulate

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)
Los Angeles (SC)	2028	Annual	□D□	DSL	Aggregated	45	5730.385828	0.0230	0.011183972	0.0003
Los Angeles (SC)	2028	Annual	□D□□	DSL	Aggregated	45	28.25879369	0.0001	0.153700428	0.0000
Los Angeles (SC)	2028	Annual	□D□2	DSL	Aggregated	45	5838.43534	0.0234	0.003902402	0.0001
Los Angeles (SC)	2028	Annual	□□D□□	DSL	Aggregated	45	66273.45759	0.2656	0.013186186	0.0035
Los Angeles (SC)	2028	Annual	□□D□2	DSL	Aggregated	45	30779.95102	0.1233	0.014203973	0.0018
Los Angeles (SC)	2028	Annual	MD□	DSL	Aggregated	45	11427.46283	0.0458	0.00416547	0.0002
Los Angeles (SC)	2028	Annual	M□	DSL	Aggregated	45	5981.722201	0.0240	0.049581712	0.0012
Los Angeles (SC)	2028	Annual	M□D□	DSL	Aggregated	45	62608.21554	0.2509	0.005742886	0.0014
Los Angeles (SC)	2028	Annual	□□D□	DSL	Aggregated	45	57257.80612	0.2294	0.012674302	0.0029
Los Angeles (SC)	2028	Annual	□□□□	DSL	Aggregated	45	2290.725845	0.0092	0.022507856	0.0002
Los Angeles (SC)	2028	Annual	□□□□	DSL	Aggregated	45	1341.562638	0.0054	0.023484339	0.0001
Los Angeles (SC)	2028	Annual	□□□□	DSL	Aggregated	45	0.21774371	0.0000	0.005722239	0.0000
							249558	1.0		0.012

EMFAC2021 Worksheet
(60 mph)

EMFAC2021 Emission Rates
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: Criteria

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	CO_RUNEX (gms/mile)	CO_RUNEX AVE (gms/mile)	NOX_RUNEX (gms/mile)	NOx_RUNEX AVE (gms/mile)
Los Angeles (SC)	2028	Annual	LDA	Dsl	Aggregated	60	5730.385828	0.0008	0.241206218	0.00019249	0.130237117	0.00010394
Los Angeles (SC)	2028	Annual	LDA	Elec	Aggregated	60	242133.5654	0.0337		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LDA	Gas	Aggregated	60	3140409.083	0.4374	0.490376703	0.21446781	0.026449337	0.01156770
Los Angeles (SC)	2028	Annual	LDA	Phe	Aggregated	60	112008.9029	0.0156	0.151219287	0.00235888	0.002083079	0.00003249
Los Angeles (SC)	2028	Annual	LDT1	Dsl	Aggregated	60	28.25879369	0.0000	2.300046525	0.00000905	1.267002613	0.00000499
Los Angeles (SC)	2028	Annual	LDT1	Elec	Aggregated	60	1850.793917	0.0003		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LDT1	Gas	Aggregated	60	295789.8982	0.0412	1.053799517	0.04340976	0.103640848	0.00426934
Los Angeles (SC)	2028	Annual	LDT1	Phe	Aggregated	60	1409.691443	0.0002	0.138357591	0.00002716	0.001902438	0.00000037
Los Angeles (SC)	2028	Annual	LDT2	Dsl	Aggregated	60	5838.43534	0.0008	0.071172827	0.00005787	0.024887716	0.00002024
Los Angeles (SC)	2028	Annual	LDT2	Elec	Aggregated	60	24770.0671	0.0034		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LDT2	Gas	Aggregated	60	1698089.402	0.2365	0.565596442	0.13375600	0.044067279	0.01042132
Los Angeles (SC)	2028	Annual	LDT2	Phe	Aggregated	60	23929.64409	0.0033	0.143609429	0.00047859	0.001976492	0.00000659
Los Angeles (SC)	2028	Annual	LHDT1	Dsl	Aggregated	60	66273.45759	0.0092	0.098619752	0.00091023	0.602568862	0.00556151
Los Angeles (SC)	2028	Annual	LHDT1	Elec	Aggregated	60	7078.582149	0.0010		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LHDT1	Gas	Aggregated	60	123514.8081	0.0172	0.832506029	0.01432031	0.092220704	0.00158633
Los Angeles (SC)	2028	Annual	LHDT2	Dsl	Aggregated	60	30779.95102	0.0043	0.094113487	0.00040343	0.569832924	0.00244265
Los Angeles (SC)	2028	Annual	LHDT2	Elec	Aggregated	60	1843.198599	0.0003		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	LHDT2	Gas	Aggregated	60	18493.46928	0.0026	0.629370061	0.00162095	0.08972553	0.00023109
Los Angeles (SC)	2028	Annual	MCY	Gas	Aggregated	60	160132.4304	0.0223	9.268579138	0.20669907	0.444145493	0.00990491
Los Angeles (SC)	2028	Annual	MDV	Dsl	Aggregated	60	11427.46283	0.0016	0.127149791	0.00020235	0.054200963	0.00008626
Los Angeles (SC)	2028	Annual	MDV	Elec	Aggregated	60	25829.54462	0.0036		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	MDV	Gas	Aggregated	60	988545.5796	0.1377	0.654364031	0.09008701	0.062914344	0.00866149
Los Angeles (SC)	2028	Annual	MDV	Phe	Aggregated	60	14652.2037	0.0020	0.143911378	0.00029366	0.001980576	0.00000404
Los Angeles (SC)	2028	Annual	MH	Dsl	Aggregated	60	5981.722201	0.0008	0.155902259	0.00012987	2.3434863	0.00195225
Los Angeles (SC)	2028	Annual	MH	Gas	Aggregated	60	13737.8769	0.0019	0.66457279	0.00127148	0.205030241	0.00039227
Los Angeles (SC)	2028	Annual	MHDT	Dsl	Aggregated	60	62608.21554	0.0087	0.041224779	0.00035945	0.599388676	0.00522620
Los Angeles (SC)	2028	Annual	MHDT	Elec	Aggregated	60	2743.218395	0.0004	0	0.00000000	0	0.00000000
Los Angeles (SC)	2028	Annual	MHDT	Gas	Aggregated	60	13309.14864	0.0019	0.630151434	0.00116800	0.214527623	0.00039763
Los Angeles (SC)	2028	Annual	MHDT	NG	Aggregated	60	1070.013059	0.0001	1.108574937	0.00016520	0.057761104	0.00000861
Los Angeles (SC)	2028	Annual	HHDT	Dsl	Aggregated	60	57257.80612	0.0080	0.035880673	0.00028612	1.193834299	0.00951973
Los Angeles (SC)	2028	Annual	HHDT	Elec	Aggregated	60	1491.868023	0.0002	0	0.00000000	0	0.00000000
Los Angeles (SC)	2028	Annual	HHDT	Gas	Aggregated	60	25.44926558	0.0000	26.389844	0.00009353	4.041213494	0.00001432
Los Angeles (SC)	2028	Annual	HHDT	NG	Aggregated	60	6600.854666	0.0009	5.35601969	0.00492366	0.47237037	0.00043424
Los Angeles (SC)	2028	Annual	OBUS	Dsl	Aggregated	60	2290.725845	0.0003	0.11608023	0.00003703	1.288932849	0.00041120
Los Angeles (SC)	2028	Annual	OBUS	Elec	Aggregated	60	79.61401844	0.0000		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	OBUS	Gas	Aggregated	60	3248.288828	0.0005	0.863169915	0.00039048	0.317206908	0.00014350
Los Angeles (SC)	2028	Annual	OBUS	NG	Aggregated	60	383.0211138	0.0001	1.306852374	0.00006971	0.068824368	0.00000367
Los Angeles (SC)	2028	Annual	SBUS	Dsl	Aggregated	60	1341.562638	0.0002	0.14739253	0.00002754	4.577080694	0.00085516
Los Angeles (SC)	2028	Annual	SBUS	Elec	Aggregated	60	113.0451849	0.0000	0	0.00000000	0	0.00000000
Los Angeles (SC)	2028	Annual	SBUS	Gas	Aggregated	60	1490.849724	0.0002	0.666970451	0.00013848	0.309549774	0.00006427
Los Angeles (SC)	2028	Annual	SBUS	NG	Aggregated	60	1728.664066	0.0002	3.950908355	0.00095116	0.11732186	0.00002824
Los Angeles (SC)	2028	Annual	UBUS	Dsl	Aggregated	60	0.21774371	0.0000	0.027755364	0.00000000	0.112279965	0.00000000
Los Angeles (SC)	2028	Annual	UBUS	Elec	Aggregated	60	441.1335681	0.0001		0.00000000		0.00000000
Los Angeles (SC)	2028	Annual	UBUS	Gas	Aggregated	60	431.6536764	0.0001	0.289776573	0.00001742	0.148207959	0.00000891
Los Angeles (SC)	2028	Annual	UBUS	NG	Aggregated	60	3553.912457	0.0005	32.70567197	0.01618735	0.132112463	0.00006539
							7180488	1.0		0.736		0.074

EMFAC2021 Worksheet
(60 mph)

EMFAC2021 Emission Rates
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: DSL Particulate

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)
Los Angeles (SC)	2028	Annual	□D□	DSL	Aggregated	60	5730.385828	0.0230	0.011827067	0.0003
Los Angeles (SC)	2028	Annual	□D□□	DSL	Aggregated	60	28.25879369	0.0001	0.176548216	0.0000
Los Angeles (SC)	2028	Annual	□D□2	DSL	Aggregated	60	5838.43534	0.0234	0.003410764	0.0001
Los Angeles (SC)	2028	Annual	□□D□□	DSL	Aggregated	60	66273.45759	0.2656	0.011678024	0.0031
Los Angeles (SC)	2028	Annual	□□D□2	DSL	Aggregated	60	30779.95102	0.1233	0.012537856	0.0015
Los Angeles (SC)	2028	Annual	MD□	DSL	Aggregated	60	11427.46283	0.0458	0.00408326	0.0002
Los Angeles (SC)	2028	Annual	M□	DSL	Aggregated	60	5981.722201	0.0240	0.066413732	0.0016
Los Angeles (SC)	2028	Annual	M□D□	DSL	Aggregated	60	62608.21554	0.2509	0.010044862	0.0025
Los Angeles (SC)	2028	Annual	□□D□	DSL	Aggregated	60	57257.80612	0.2294	0.027340065	0.0063
Los Angeles (SC)	2028	Annual	□□□□	DSL	Aggregated	60	2290.725845	0.0092	0.035857945	0.0003
Los Angeles (SC)	2028	Annual	□□□□	DSL	Aggregated	60	1341.562638	0.0054	0.03399864	0.0002
Los Angeles (SC)	2028	Annual	□□□□	DSL	Aggregated	60	0.21774371	0.0000	0.010444302	0.0000
							249558	1.0		0.016

Emission Rate Adjustment Worksheet

CO Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.859
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	2.043

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	1.893
Emfac (gr/mi)	2.840

NOX Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.071
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.169

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.233
Emfac (gr/mi)	0.350

Emission Rate Adjustment Worksheet

DSL Particulate Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.012
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.029

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.036
Emfac (gr/mi)	0.054

Source: California Department of Transportation, 1989. Division of New Technology and Research. Caline4 – A Dispersion Model for Predicting Air Pollution Concentrations Near Roadways (Revised). FHWA/CA/TL-84/15.

On-Road Mobile Sources
Emission Rate Computation

EB/Interstate 10 (Sources E_M_1 to E_M_24)

CO Emissions

Number of Sources	24
Link Length (meters)	695
Volume/Baseline (VPH)	2417
Pollutant Mass Emission Rate (gr/mi)	0.736

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.21340
Pollutant Emission Rate (gr/sec/source)	8.89E-03

WB/Interstate 10 (Sources W_M_1 to W_M_25)

CO Emissions

Number of Sources	25
Link Length (meters)	686
Volume/Baseline (VPH)	1876
Pollutant Mass Emission Rate (gr/mi)	0.736

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.16349
Pollutant Emission Rate (gr/sec/source)	6.54E-03

SB ON/4th Street (Sources S_ON_4TH_1 to S_ON_4TH_15)

CO Emissions

Number of Sources	15
Link Length (meters)	320
Volume/Baseline (VPH)	846
Pollutant Mass Emission Rate (gr/mi)	2.043

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.09547
Pollutant Emission Rate (gr/sec/source)	6.36E-03

NB OFF/4TH Street (Sources N_OFF_4TH_1 to N_OFF_4TH_21)

CO Emissions

Number of Sources	21
Link Length (meters)	384
Volume/Baseline (VPH)	1125
Pollutant Mass Emission Rate (gr/mi)	2.840

On-Road Mobile Sources
Emission Rate Computation

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.21177
Pollutant Emission Rate (gr/sec/source)	1.01E-02

SB OFF/Lincoln Boulevard (Sources S_OFF_L_1 to S_OFF_L_25)

CO Emissions

Number of Sources	25
Link Length (meters)	305
Volume/Baseline (VPH)	144
Pollutant Mass Emission Rate (gr/mi)	2.840

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.02153
Pollutant Emission Rate (gr/sec/source)	8.61E-04

NB ON/Lincoln Boulevard (Sources N_ON_L_1 to N_ON_L_27)

CO Emissions

TOG DSL Emissions

Number of Sources	27
Link Length (meters)	329
Volume/Baseline (VPH)	175
Pollutant Mass Emission Rate (gr/mi)	2.043

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.02030
Pollutant Emission Rate (gr/sec/source)	7.52E-04

On-Road Mobile Sources
Emission Rate Computation

EB/Interstate 10 (Sources E_M_1 to E_M_24)

NOx Emissions

Number of Sources	24
Link Length (meters)	695
Volume/Baseline (VPH)	2417
Pollutant Mass Emission Rate (gr/mi)	0.074

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.02146
Pollutant Emission Rate (gr/sec/source)	8.94E-04

WB/Interstate 10 (Sources W_M_1 to W_M_25)

NOx Emissions

Number of Sources	25
Link Length (meters)	686
Volume/Baseline (VPH)	1876
Pollutant Mass Emission Rate (gr/mi)	0.074

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.01644
Pollutant Emission Rate (gr/sec/source)	6.58E-04

SB ON/4th Street (Sources S_ON_4TH_1 to S_ON_4TH_15)

NOx Emissions

Number of Sources	15
Link Length (meters)	320
Volume/Baseline (VPH)	846
Pollutant Mass Emission Rate (gr/mi)	0.169

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00790
Pollutant Emission Rate (gr/sec/source)	5.26E-04

NB OFF/4TH Street (Sources N_OFF_4TH_1 to N_OFF_4TH_21)

NOx Emissions

Number of Sources	21
Link Length (meters)	384
Volume/Baseline (VPH)	1125
Pollutant Mass Emission Rate (gr/mi)	0.350

On-Road Mobile Sources
Emission Rate Computation

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.02610
Pollutant Emission Rate (gr/sec/source)	1.24E-03

SB OFF/Lincoln Boulevard (Sources S_OFF_L_1 to S_OFF_L_25)

NOx Emissions

Number of Sources	25
Link Length (meters)	305
Volume/Baseline (VPH)	144
Pollutant Mass Emission Rate (gr/mi)	0.350

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00265
Pollutant Emission Rate (gr/sec/source)	1.06E-04

NB ON/Lincoln Boulevard (Sources N_ON_L_1 to N_ON_L_27)

NOx Emissions

TOG DSL Emissions

Number of Sources	27
Link Length (meters)	329
Volume/Baseline (VPH)	175
Pollutant Mass Emission Rate (gr/mi)	0.169

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00168
Pollutant Emission Rate (gr/sec/source)	6.22E-05

On-Road Mobile Sources
Emission Rate Computation

EB/Interstate 10 (Sources E_M_1 to E_M_24)

DSL Emissions

Number of Sources	24
Link Length (meters)	695
Volume/Baseline (VPH)	84
Pollutant Mass Emission Rate (gr/mi)	0.016

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00016
Pollutant Emission Rate (gr/sec/source)	6.72E-06

WB/Interstate 10 (Sources W_M_1 to W_M_25)

DSL Emissions

Number of Sources	25
Link Length (meters)	686
Volume/Baseline (VPH)	65
Pollutant Mass Emission Rate (gr/mi)	0.016

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00012
Pollutant Emission Rate (gr/sec/source)	4.93E-06

SB ON/4th Street (Sources S_ON_4TH_1 to S_ON_4TH_15)

DSL Emissions

Number of Sources	15
Link Length (meters)	320
Volume/Baseline (VPH)	29
Pollutant Mass Emission Rate (gr/mi)	0.029

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00005
Pollutant Emission Rate (gr/sec/source)	3.10E-06

NB OFF/4TH Street (Sources N_OFF_4TH_1 to N_OFF_4TH_21)

DSL Emissions

Number of Sources	21
Link Length (meters)	384
Volume/Baseline (VPH)	39
Pollutant Mass Emission Rate (gr/mi)	0.054

On-Road Mobile Sources
Emission Rate Computation

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00014
Pollutant Emission Rate (gr/sec/source)	6.65E-06

SB OFF/Lincoln Boulevard (Sources S_OFF_L_1 to S_OFF_L_25)

DSL Emissions

Number of Sources	25
Link Length (meters)	305
Volume/Baseline (VPH)	5
Pollutant Mass Emission Rate (gr/mi)	0.054

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00001
Pollutant Emission Rate (gr/sec/source)	5.69E-07

NB ON/Lincoln Boulevard (Sources N_ON_L_1 to N_ON_L_27)

DSL Emissions

TOG DSL Emissions

Number of Sources	27
Link Length (meters)	329
Volume/Baseline (VPH)	6
Pollutant Mass Emission Rate (gr/mi)	0.029

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00001
Pollutant Emission Rate (gr/sec/source)	3.66E-07

Attachment D

Vehicle Time-of-Day Adjustment Factors

Vehicle Time-of-Day Adjustment Factors

Eastbound Roadway Segments		Westbound Roadway Segments	
Ending Hour	Adjustment Factor	Ending Hour	Adjustment Factor
1	0.5082	1	0.3290
2	0.3348	2	0.2249
3	0.2361	3	0.1789
4	0.1320	4	0.1776
5	0.1382	5	0.2456
6	0.2745	6	0.5896
7	0.6878	7	0.9309
8	1.2392	8	1.1880
9	1.3426	9	1.3611
10	1.3795	10	1.3972
11	1.3611	11	1.4219
12	1.3315	12	1.4333
13	1.3538	13	1.4144
14	1.4084	14	1.3933
15	1.4572	15	1.4277
16	1.3932	16	1.4188
17	1.2996	17	1.3694
18	1.2413	18	1.4435
19	1.2452	19	1.4402
20	1.3108	20	1.3080
21	1.2706	21	1.0545
22	1.1929	22	0.9206
23	1.0622	23	0.7866
24	0.7992	24	0.5451
Total	**24**	**Total**	**24**

Source: Caltrans PeMS database, April 6 through April 13, 2019 at Postmile 2.33 (Lincoln Boulevard).

Attachment E

Dispersion Model Input Table

Dispersion Model Input Table

ID	X	Y	ZS	RH	SY	SZ	CO	NOx	DPM
E_M_1	362107.3	3764464.0	12.0	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_2	362129.1	3764480.6	12.6	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_3	362150.9	3764497.2	13.1	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_4	362174.2	3764511.7	13.7	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_5	362198.5	3764524.3	14.3	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_6	362224.4	3764533.1	14.9	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_7	362251.3	3764538.7	15.4	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_8	362278.5	3764541.2	16.0	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_9	362306.1	3764542.4	16.6	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_10	362332.3	3764543.6	17.1	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_11	362360.8	3764544.2	17.7	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_12	362389.7	3764545.1	17.9	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_13	362418.5	3764549.5	18.0	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_14	362446.3	3764557.2	18.2	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_15	362473.0	3764566.4	18.4	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_16	362499.4	3764578.1	18.5	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_17	362525.2	3764591.3	18.7	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_18	362549.7	3764606.9	18.9	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_19	362573.4	3764623.1	19.1	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_20	362596.9	3764640.4	19.2	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_21	362620.1	3764658.2	19.4	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_22	362643.7	3764674.6	19.6	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_23	362667.2	3764691.2	19.7	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
E_M_24	362690.5	3764708.5	19.9	0	13.47	2.44	8.89E-03	8.94E-04	6.72E-06
W_M_1	362694.0	3764727.8	19.7	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_2	362671.5	3764711.9	19.5	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_3	362649.4	3764695.9	19.4	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_4	362627.2	3764679.8	19.2	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_5	362604.9	3764663.9	19.0	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_6	362582.7	3764647.7	18.8	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_7	362560.3	3764631.5	18.6	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_8	362538.0	3764616.0	18.4	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_9	362514.5	3764601.4	18.2	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_10	362490.1	3764589.1	18.0	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_11	362465.1	3764578.5	17.8	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_12	362438.9	3764569.4	17.6	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_13	362412.4	3764562.8	17.4	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_14	362385.4	3764558.5	17.3	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_15	362358.4	3764554.9	17.1	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_16	362328.9	3764553.4	16.6	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_17	362300.0	3764552.1	16.1	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_18	362271.1	3764550.4	15.6	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_19	362242.6	3764546.6	15.1	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_20	362214.4	3764539.2	14.6	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_21	362187.2	3764529.3	14.0	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_22	362161.9	3764515.1	13.5	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_23	362137.8	3764499.2	13.0	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_24	362114.5	3764482.0	12.5	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
W_M_25	362092.4	3764465.8	12.0	0	12.76	2.42	6.54E-03	6.58E-04	4.93E-06
S_ON_4TH_1	362455.0	3764523.7	24.7	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_2	362472.0	3764537.0	24.5	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_3	362489.1	3764549.7	24.3	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_4	362506.4	3764562.2	24.1	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_5	362523.6	3764574.6	24.0	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_6	362540.8	3764587.6	23.8	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_7	362558.2	3764599.8	23.6	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_8	362575.7	3764611.8	23.4	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_9	362592.7	3764624.5	23.2	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_10	362610.4	3764636.6	23.1	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_11	362628.0	3764648.6	22.9	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_12	362645.4	3764661.2	22.7	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_13	362663.0	3764673.3	22.5	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_14	362680.4	3764685.2	22.3	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
S_ON_4TH_15	362697.9	3764697.7	22.2	0	9.93	2.34	6.36E-03	5.26E-04	3.10E-06
N_OFF_4TH_1	362687.4	3764735.6	20.2	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_2	362671.6	3764725.9	20.4	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_3	362656.0	3764716.6	20.5	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_4	362640.4	3764707.1	20.6	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_5	362624.8	3764697.6	20.8	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_6	362609.0	3764688.2	20.9	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_7	362593.1	3764679.0	21.0	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_8	362577.6	3764669.5	21.2	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_9	362561.7	3764660.2	21.3	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_10	362545.8	3764651.8	21.4	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_11	362530.3	3764641.4	21.6	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06

N_OFF_4TH_12	362515.0	3764632.0	21.7	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_13	362499.1	3764622.9	21.8	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_14	362482.5	3764614.9	21.9	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_15	362465.2	3764608.4	22.1	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_16	362447.9	3764603.5	22.2	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_17	362429.9	3764598.0	22.3	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_18	362412.1	3764593.1	22.5	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_19	362394.2	3764588.9	22.6	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_20	362376.3	3764586.3	22.7	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
N_OFF_4TH_21	362357.8	3764583.3	22.9	0	8.51	2.30	1.01E-02	1.24E-03	6.65E-06
S_OFF_L_1	362395.0	3764539.6	18.3	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_2	362407.3	3764540.4	18.6	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_3	362419.7	3764540.9	18.9	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_4	362431.5	3764543.3	19.2	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_5	362443.9	3764545.1	19.6	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_6	362455.7	3764547.8	19.9	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_7	362467.4	3764550.4	20.2	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_8	362479.2	3764553.6	20.5	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_9	362491.2	3764557.0	20.8	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_10	362502.7	3764560.4	21.1	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_11	362514.0	3764564.3	21.5	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_12	362525.7	3764568.7	21.8	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_13	362536.4	3764577.6	22.1	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_14	362547.0	3764580.7	22.4	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_15	362557.2	3764586.9	22.7	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_16	362567.4	3764593.8	23.1	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_17	362577.7	3764600.5	23.4	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_18	362588.0	3764607.2	23.7	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_19	362597.6	3764614.3	24.0	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_20	362607.8	3764621.1	24.3	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_21	362617.6	3764628.2	24.6	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_22	362627.5	3764635.6	25.0	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_23	362636.9	3764642.9	25.3	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_24	362646.9	3764650.1	25.6	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
S_OFF_L_25	362656.9	3764657.3	25.9	0	5.67	2.22	8.61E-04	1.06E-04	5.69E-07
N_ON_L_1	362678.2	3764759.7	27.0	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_2	362670.1	3764750.6	26.6	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_3	362661.9	3764741.2	26.2	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_4	362653.6	3764732.1	25.8	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_5	362645.6	3764723.5	25.5	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_6	362637.4	3764714.2	25.1	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_7	362629.1	3764705.4	24.7	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_8	362620.7	3764696.4	24.3	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_9	362612.0	3764688.0	23.9	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_10	362603.2	3764679.8	23.5	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_11	362594.0	3764671.5	23.2	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_12	362584.7	3764663.7	22.8	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_13	362574.6	3764656.6	22.4	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_14	362564.8	3764649.6	22.0	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_15	362554.8	3764642.4	21.6	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_16	362544.5	3764636.3	21.3	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_17	362534.0	3764630.0	20.9	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_18	362523.6	3764623.8	20.5	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_19	362512.9	3764617.7	20.1	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_20	362502.4	3764611.9	19.7	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_21	362491.7	3764605.5	19.4	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_22	362481.2	3764599.2	19.0	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_23	362470.4	3764593.2	18.6	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_24	362459.7	3764587.7	18.2	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_25	362448.8	3764582.4	17.8	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_26	362437.5	3764577.9	17.4	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07
N_ON_L_27	362425.8	3764573.8	17.1	0	5.67	2.22	7.52E-04	6.22E-05	3.66E-07

Attachment F

Dispersion Model Output Summary Files

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   137 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates ANNUAL Averages Only

**This Run Includes: 137 Source(s);   1 Source Group(s); and   222 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 137 VOLUME source(s)
                and: 0 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 RLINE/RLINEXT source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   53.20 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_FIRST.DTA
**Output Print File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_FIRST.LST

**File for Summary of Results: E:\WD Passport\1640 5th street\model\DPM_2012-2016_FIRST.SUM

```
                                                 *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                  (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

              NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



                                       *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                (METERS/SEC)

                                                    1.54,   3.09,   5.14,   8.23,  10.80,
```

```
                                         *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.SFC                              Met Version:  16216
   Profile file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    93197                  Upper air station no.:     3190
                  Name: SANTA MONICA MUNICIPAL AIRPORT, CA        Name: UNKNOWN
                  Year:   2012                                    Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  131.    10.1  283.1    2.0
 12 01 01   1 02   -7.6  0.121 -9.000 -9.000 -999.  101.     21.3  0.17   2.20   1.00    1.35  232.    10.1  282.0    2.0
 12 01 01   1 03   -3.3  0.082 -9.000 -9.000 -999.   57.     15.3  0.17   2.20   1.00    0.86   46.    10.1  280.9    2.0
 12 01 01   1 04   -5.4  0.102 -9.000 -9.000 -999.   79.     17.9  0.17   2.20   1.00    1.14   82.    10.1  281.4    2.0
 12 01 01   1 05   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  205.    10.1  281.4    2.0
 12 01 01   1 06   -7.4  0.119 -9.000 -9.000 -999.   99.     20.9  0.17   2.20   1.00    1.33  254.    10.1  280.9    2.0
 12 01 01   1 07   -4.6  0.094 -9.000 -9.000 -999.   70.     16.6  0.17   2.20   1.00    1.04   39.    10.1  279.2    2.0
 12 01 01   1 08  -16.0  0.197 -9.000 -9.000 -999.  209.     43.0  0.17   2.20   0.54    2.10   63.    10.1  282.0    2.0
 12 01 01   1 09   36.8  0.255  0.339  0.005   38.  309.    -40.8  0.17   2.20   0.31    2.27   33.    10.1  292.0    2.0
 12 01 01   1 10  102.6  0.234  0.691  0.006  117.  271.    -11.3  0.17   2.20   0.23    1.79  204.    10.1  289.2    2.0
 12 01 01   1 11  154.6  0.178  1.118  0.005  327.  181.     -3.3  0.17   2.20   0.20    1.11  119.    10.1  296.4    2.0
 12 01 01   1 12  182.0  0.295  1.459  0.005  618.  385.    -12.8  0.17   2.20   0.19    2.30   76.    10.1  300.9    2.0
 12 01 01   1 13  175.0  0.355  1.686  0.005  991.  507.    -23.0  0.17   2.20   0.19    2.98  179.    10.1  293.8    2.0
 12 01 01   1 14  148.1  0.374  1.737  0.005 1282.  549.    -31.9  0.17   2.20   0.20    3.25  211.    10.1  292.0    2.0
 12 01 01   1 15   98.0  0.291  1.572  0.005 1436.  380.    -22.7  0.17   2.20   0.23    2.44  231.    10.1  290.9    2.0
 12 01 01   1 16   28.2  0.303  1.044  0.005 1460.  400.    -89.0  0.17   2.20   0.32    2.85  217.    10.1  289.2    2.0
 12 01 01   1 17  -22.4  0.259 -9.000 -9.000 -999.  317.     73.7  0.17   2.20   0.58    2.73  226.    10.1  287.0    2.0
 12 01 01   1 18   -8.7  0.131 -9.000 -9.000 -999.  124.     23.3  0.17   2.20   1.00    1.45  230.    10.1  286.4    2.0
 12 01 01   1 19  -13.2  0.163 -9.000 -9.000 -999.  157.     29.4  0.17   2.20   1.00    1.77  225.    10.1  285.9    2.0
 12 01 01   1 20   -5.7  0.106 -9.000 -9.000 -999.   83.     18.6  0.17   2.20   1.00    1.18  182.    10.1  284.9    2.0
 12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17   2.20   1.00    0.00    0.    10.1  284.2    2.0
 12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.     21.1  0.17   2.20   1.00    1.33  202.    10.1  285.4    2.0
 12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.     19.1  0.17   2.20   1.00    1.21  251.    10.1  284.9    2.0
 12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.     18.0  0.17   2.20   1.00    1.14  224.    10.1  284.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
```

```
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                 ***        07:41:43
                                                                                                                   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                         **

                                                                                                          NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.03911 AT (  362426.10,  3764618.40,    21.90,    21.90,    0.00)  DC
          2ND HIGHEST VALUE IS       0.03906 AT (  362434.90,  3764621.30,    21.90,    21.90,    0.00)  DC
          3RD HIGHEST VALUE IS       0.03900 AT (  362431.80,  3764620.30,    21.90,    21.90,    0.00)  DC
          4TH HIGHEST VALUE IS       0.03896 AT (  362423.00,  3764617.50,    21.90,    21.90,    0.00)  DC
          5TH HIGHEST VALUE IS       0.03887 AT (  362413.90,  3764614.60,    21.90,    21.90,    0.00)  DC
          6TH HIGHEST VALUE IS       0.03862 AT (  362405.10,  3764612.20,    21.90,    21.90,    0.00)  DC
          7TH HIGHEST VALUE IS       0.03854 AT (  362411.00,  3764614.00,    21.90,    21.90,    0.00)  DC
          8TH HIGHEST VALUE IS       0.03843 AT (  362402.10,  3764611.40,    21.90,    21.90,    0.00)  DC
          9TH HIGHEST VALUE IS       0.03829 AT (  362420.00,  3764617.00,    21.90,    21.90,    0.00)  DC
         10TH HIGHEST VALUE IS       0.03824 AT (  362429.00,  3764620.00,    21.90,    21.90,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                 ***        07:41:43
                                                                                                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          799 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          455 Calm Hours Identified

 A Total of          344 Missing Hours Identified (  0.78 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     666       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     666       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   137 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates ANNUAL Averages Only

**This Run Includes: 137 Source(s);   1 Source Group(s); and   222 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 137 VOLUME source(s)
                and: 0 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 RLINE/RLINEXT source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   53.20 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_SECOND.DTA
**Output Print File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_SECOND.LST

**File for Summary of Results: E:\WD Passport\1640 5th street\model\DPM_2012-2016_SECOND.SUM

```
 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                         ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                      ***        07:57:59
                                                                                                                          PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                            *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                               (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



                                       *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                             (METERS/SEC)

                                                    1.54,   3.09,   5.14,   8.23,  10.80,

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                         ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                      ***        07:57:59
                                                                                                                          PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                         *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.SFC                             Met Version:  16216
   Profile file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    93197                 Upper air station no.:     3190
                  Name: SANTA MONICA MUNICIPAL AIRPORT, CA         Name: UNKNOWN
                  Year:   2012                                     Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  131.    10.1  283.1    2.0
 12 01 01   1 02   -7.6  0.121 -9.000 -9.000 -999.  101.     21.3  0.17   2.20   1.00    1.35  232.    10.1  282.0    2.0
 12 01 01   1 03   -3.3  0.082 -9.000 -9.000 -999.   57.     15.3  0.17   2.20   1.00    0.86   46.    10.1  280.9    2.0
 12 01 01   1 04   -5.4  0.102 -9.000 -9.000 -999.   79.     17.9  0.17   2.20   1.00    1.14   82.    10.1  281.4    2.0
 12 01 01   1 05   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  205.    10.1  281.4    2.0
 12 01 01   1 06   -7.4  0.119 -9.000 -9.000 -999.   99.     20.9  0.17   2.20   1.00    1.33  254.    10.1  280.9    2.0
 12 01 01   1 07   -4.6  0.094 -9.000 -9.000 -999.   70.     16.6  0.17   2.20   1.00    1.04   39.    10.1  279.2    2.0
 12 01 01   1 08  -16.0  0.197 -9.000 -9.000 -999.  209.     43.0  0.17   2.20   0.54    2.10   63.    10.1  282.0    2.0
 12 01 01   1 09   36.8  0.255  0.339  0.005   38.  309.    -40.8  0.17   2.20   0.31    2.27   33.    10.1  292.0    2.0
 12 01 01   1 10  102.6  0.234  0.691  0.006  117.  271.    -11.3  0.17   2.20   0.23    1.79  204.    10.1  289.2    2.0
 12 01 01   1 11  154.6  0.178  1.118  0.005  327.  181.     -3.3  0.17   2.20   0.20    1.11  119.    10.1  296.4    2.0
 12 01 01   1 12  182.0  0.295  1.459  0.005  618.  385.    -12.8  0.17   2.20   0.19    2.30   76.    10.1  300.9    2.0
 12 01 01   1 13  175.0  0.355  1.686  0.005  991.  507.    -23.0  0.17   2.20   0.19    2.98  179.    10.1  293.8    2.0
 12 01 01   1 14  148.1  0.374  1.737  0.005 1282.  549.    -31.9  0.17   2.20   0.20    3.25  211.    10.1  292.0    2.0
 12 01 01   1 15   98.0  0.291  1.572  0.005 1436.  380.    -22.7  0.17   2.20   0.23    2.44  231.    10.1  290.9    2.0
 12 01 01   1 16   28.2  0.303  1.044  0.005 1460.  400.    -89.0  0.17   2.20   0.32    2.85  217.    10.1  289.2    2.0
 12 01 01   1 17  -22.4  0.259 -9.000 -9.000 -999.  317.     73.7  0.17   2.20   0.58    2.73  226.    10.1  287.0    2.0
 12 01 01   1 18   -8.7  0.131 -9.000 -9.000 -999.  124.     23.3  0.17   2.20   1.00    1.45  230.    10.1  286.4    2.0
 12 01 01   1 19  -13.2  0.163 -9.000 -9.000 -999.  157.     29.4  0.17   2.20   1.00    1.77  225.    10.1  285.9    2.0
 12 01 01   1 20   -5.7  0.106 -9.000 -9.000 -999.   83.     18.6  0.17   2.20   1.00    1.18  182.    10.1  284.9    2.0
 12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17   2.20   1.00    0.00    0.    10.1  284.2    2.0
 12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.     21.1  0.17   2.20   1.00    1.33  202.    10.1  285.4    2.0
 12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.     19.1  0.17   2.20   1.00    1.21  251.    10.1  284.9    2.0
 12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.     18.0  0.17   2.20   1.00    1.14  224.    10.1  284.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
```

```
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                 ***        07:57:59
                                                                                                                   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                          NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.03532 AT (  362434.90,  3764621.30,    21.90,    21.90,    3.40)  DC
          2ND HIGHEST VALUE IS       0.03525 AT (  362431.80,  3764620.30,    21.90,    21.90,    3.40)  DC
          3RD HIGHEST VALUE IS       0.03522 AT (  362426.10,  3764618.40,    21.90,    21.90,    3.40)  DC
          4TH HIGHEST VALUE IS       0.03508 AT (  362423.00,  3764617.50,    21.90,    21.90,    3.40)  DC
          5TH HIGHEST VALUE IS       0.03498 AT (  362413.90,  3764614.60,    21.90,    21.90,    3.40)  DC
          6TH HIGHEST VALUE IS       0.03468 AT (  362411.00,  3764614.00,    21.90,    21.90,    3.40)  DC
          7TH HIGHEST VALUE IS       0.03464 AT (  362405.10,  3764612.20,    21.90,    21.90,    3.40)  DC
          8TH HIGHEST VALUE IS       0.03463 AT (  362429.00,  3764620.00,    21.90,    21.90,    3.40)  DC
          9TH HIGHEST VALUE IS       0.03459 AT (  362420.00,  3764617.00,    21.90,    21.90,    3.40)  DC
         10TH HIGHEST VALUE IS       0.03448 AT (  362402.10,  3764611.40,    21.90,    21.90,    3.40)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                 ***        07:57:59
                                                                                                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          799 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          455 Calm Hours Identified

 A Total of          344 Missing Hours Identified (  0.78 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     666       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     666       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   137 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates ANNUAL Averages Only

**This Run Includes: 137 Source(s);   1 Source Group(s); and   222 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 137 VOLUME source(s)
                and: 0 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 RLINE/RLINEXT source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   53.20 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_THIRD.DTA
**Output Print File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_THIRD.LST

**File for Summary of Results: E:\WD Passport\1640 5th street\model\DPM_2012-2016_THIRD.SUM

```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                             *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                              (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                             (METERS/SEC)

                                                  1.54,   3.09,   5.14,   8.23,  10.80,
```

```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                        *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.SFC                                  Met Version:  16216
  Profile file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    93197                  Upper air station no.:     3190
                 Name: SANTA MONICA MUNICIPAL AIRPORT, CA         Name: UNKNOWN
                 Year:   2012                                     Year:   2012

First 24 hours of scalar data
YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
12 01 01   1 01   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  131.    10.1  283.1    2.0
12 01 01   1 02   -7.6  0.121 -9.000 -9.000 -999.  101.     21.3  0.17   2.20   1.00    1.35  232.    10.1  282.0    2.0
12 01 01   1 03   -3.3  0.082 -9.000 -9.000 -999.   57.     15.3  0.17   2.20   1.00    0.86   46.    10.1  280.9    2.0
12 01 01   1 04   -5.4  0.102 -9.000 -9.000 -999.   79.     17.9  0.17   2.20   1.00    1.14   82.    10.1  281.4    2.0
12 01 01   1 05   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  205.    10.1  281.4    2.0
12 01 01   1 06   -7.4  0.119 -9.000 -9.000 -999.   99.     20.9  0.17   2.20   1.00    1.33  254.    10.1  280.9    2.0
12 01 01   1 07   -4.6  0.094 -9.000 -9.000 -999.   70.     16.6  0.17   2.20   1.00    1.04   39.    10.1  279.2    2.0
12 01 01   1 08  -16.0  0.197 -9.000 -9.000 -999.  209.     43.0  0.17   2.20   0.54    2.10   63.    10.1  282.0    2.0
12 01 01   1 09   36.8  0.255  0.339  0.005   38.  309.    -40.8  0.17   2.20   0.31    2.27   33.    10.1  292.0    2.0
12 01 01   1 10  102.6  0.234  0.691  0.006  117.  271.    -11.3  0.17   2.20   0.23    1.79  204.    10.1  289.2    2.0
12 01 01   1 11  154.6  0.178  1.118  0.005  327.  181.     -3.3  0.17   2.20   0.20    1.11  119.    10.1  296.4    2.0
12 01 01   1 12  182.0  0.295  1.459  0.005  618.  385.    -12.8  0.17   2.20   0.19    2.30   76.    10.1  300.9    2.0
12 01 01   1 13  175.0  0.355  1.686  0.005  991.  507.    -23.0  0.17   2.20   0.19    2.98  179.    10.1  293.8    2.0
12 01 01   1 14  148.1  0.374  1.737  0.005 1282.  549.    -31.9  0.17   2.20   0.20    3.25  211.    10.1  292.0    2.0
12 01 01   1 15   98.0  0.291  1.572  0.005 1436.  380.    -22.7  0.17   2.20   0.23    2.44  231.    10.1  290.9    2.0
12 01 01   1 16   28.2  0.303  1.044  0.005 1460.  400.    -89.0  0.17   2.20   0.32    2.85  217.    10.1  289.2    2.0
12 01 01   1 17  -22.4  0.259 -9.000 -9.000 -999.  317.     73.7  0.17   2.20   0.58    2.73  226.    10.1  287.0    2.0
12 01 01   1 18   -8.7  0.131 -9.000 -9.000 -999.  124.     23.3  0.17   2.20   1.00    1.45  230.    10.1  286.4    2.0
12 01 01   1 19  -13.2  0.163 -9.000 -9.000 -999.  157.     29.4  0.17   2.20   1.00    1.77  225.    10.1  285.9    2.0
12 01 01   1 20   -5.7  0.106 -9.000 -9.000 -999.   83.     18.6  0.17   2.20   1.00    1.18  182.    10.1  284.9    2.0
12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17   2.20   1.00    0.00    0.    10.1  284.2    2.0
12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.     21.1  0.17   2.20   1.00    1.33  202.    10.1  285.4    2.0
12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.     19.1  0.17   2.20   1.00    1.21  251.    10.1  284.9    2.0
12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.     18.0  0.17   2.20   1.00    1.14  224.    10.1  284.2    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
```

```
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                 ***        08:16:03
                                                                                                                   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                          NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.02703 AT (  362434.90,  3764621.30,    21.90,    21.90,    6.40)  DC
          2ND HIGHEST VALUE IS       0.02693 AT (  362431.80,  3764620.30,    21.90,    21.90,    6.40)  DC
          3RD HIGHEST VALUE IS       0.02679 AT (  362426.10,  3764618.40,    21.90,    21.90,    6.40)  DC
          4TH HIGHEST VALUE IS       0.02666 AT (  362423.00,  3764617.50,    21.90,    21.90,    6.40)  DC
          5TH HIGHEST VALUE IS       0.02661 AT (  362429.00,  3764620.00,    21.90,    21.90,    6.40)  DC
          6TH HIGHEST VALUE IS       0.02640 AT (  362420.00,  3764617.00,    21.90,    21.90,    6.40)  DC
          7TH HIGHEST VALUE IS       0.02640 AT (  362413.90,  3764614.60,    21.90,    21.90,    6.40)  DC
          8TH HIGHEST VALUE IS       0.02638 AT (  362435.00,  3764623.00,    21.90,    21.90,    6.40)  DC
          9TH HIGHEST VALUE IS       0.02618 AT (  362411.00,  3764614.00,    21.90,    21.90,    6.40)  DC
         10TH HIGHEST VALUE IS       0.02614 AT (  362426.00,  3764620.00,    21.90,    21.90,    6.40)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                 ***        08:16:03
                                                                                                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          799 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          455 Calm Hours Identified

 A Total of          344 Missing Hours Identified (  0.78 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     666       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     666       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   137 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates ANNUAL Averages Only

**This Run Includes: 137 Source(s);   1 Source Group(s); and   222 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 137 VOLUME source(s)
                and: 0 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 RLINE/RLINEXT source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   53.20 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_FOURTH.DTA
**Output Print File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_FOURTH.LST

**File for Summary of Results: E:\WD Passport\1640 5th street\model\DPM_2012-2016_FOURTH.SUM

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                               (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                           (METERS/SEC)

                                                  1.54,   3.09,   5.14,   8.23,  10.80,

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                        ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                     ***        08:26:00
                                                                                                                         PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                      *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.SFC                              Met Version:  16216
   Profile file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    93197                  Upper air station no.:     3190
                  Name: SANTA MONICA MUNICIPAL AIRPORT, CA        Name: UNKNOWN
                  Year:   2012                                    Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  131.    10.1  283.1    2.0
 12 01 01   1 02   -7.6  0.121 -9.000 -9.000 -999.  101.     21.3  0.17   2.20   1.00    1.35  232.    10.1  282.0    2.0
 12 01 01   1 03   -3.3  0.082 -9.000 -9.000 -999.   57.     15.3  0.17   2.20   1.00    0.86   46.    10.1  280.9    2.0
 12 01 01   1 04   -5.4  0.102 -9.000 -9.000 -999.   79.     17.9  0.17   2.20   1.00    1.14   82.    10.1  281.4    2.0
 12 01 01   1 05   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  205.    10.1  281.4    2.0
 12 01 01   1 06   -7.4  0.119 -9.000 -9.000 -999.   99.     20.9  0.17   2.20   1.00    1.33  254.    10.1  280.9    2.0
 12 01 01   1 07   -4.6  0.094 -9.000 -9.000 -999.   70.     16.6  0.17   2.20   1.00    1.04   39.    10.1  279.2    2.0
 12 01 01   1 08  -16.0  0.197 -9.000 -9.000 -999.  209.     43.0  0.17   2.20   0.54    2.10   63.    10.1  282.0    2.0
 12 01 01   1 09   36.8  0.255  0.339  0.005   38.  309.    -40.8  0.17   2.20   0.31    2.27   33.    10.1  292.0    2.0
 12 01 01   1 10  102.6  0.234  0.691  0.006  117.  271.    -11.3  0.17   2.20   0.23    1.79  204.    10.1  289.2    2.0
 12 01 01   1 11  154.6  0.178  1.118  0.005  327.  181.     -3.3  0.17   2.20   0.20    1.11  119.    10.1  296.4    2.0
 12 01 01   1 12  182.0  0.295  1.459  0.005  618.  385.    -12.8  0.17   2.20   0.19    2.30   76.    10.1  300.9    2.0
 12 01 01   1 13  175.0  0.355  1.686  0.005  991.  507.    -23.0  0.17   2.20   0.19    2.98  179.    10.1  293.8    2.0
 12 01 01   1 14  148.1  0.374  1.737  0.005 1282.  549.    -31.9  0.17   2.20   0.20    3.25  211.    10.1  292.0    2.0
 12 01 01   1 15   98.0  0.291  1.572  0.005 1436.  380.    -22.7  0.17   2.20   0.23    2.44  231.    10.1  290.9    2.0
 12 01 01   1 16   28.2  0.303  1.044  0.005 1460.  400.    -89.0  0.17   2.20   0.32    2.85  217.    10.1  289.2    2.0
 12 01 01   1 17  -22.4  0.259 -9.000 -9.000 -999.  317.     73.7  0.17   2.20   0.58    2.73  226.    10.1  287.0    2.0
 12 01 01   1 18   -8.7  0.131 -9.000 -9.000 -999.  124.     23.3  0.17   2.20   1.00    1.45  230.    10.1  286.4    2.0
 12 01 01   1 19  -13.2  0.163 -9.000 -9.000 -999.  157.     29.4  0.17   2.20   1.00    1.77  225.    10.1  285.9    2.0
 12 01 01   1 20   -5.7  0.106 -9.000 -9.000 -999.   83.     18.6  0.17   2.20   1.00    1.18  182.    10.1  284.9    2.0
 12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17   2.20   1.00    0.00    0.    10.1  284.2    2.0
 12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.     21.1  0.17   2.20   1.00    1.33  202.    10.1  285.4    2.0
 12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.     19.1  0.17   2.20   1.00    1.21  251.    10.1  284.9    2.0
 12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.     18.0  0.17   2.20   1.00    1.14  224.    10.1  284.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
```

```
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                          NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.01763 AT (  362434.90,  3764621.30,    21.90,    21.90,    9.50)  DC
          2ND HIGHEST VALUE IS       0.01753 AT (  362435.00,  3764623.00,    21.90,    21.90,    9.50)  DC
          3RD HIGHEST VALUE IS       0.01751 AT (  362431.80,  3764620.30,    21.90,    21.90,    9.50)  DC
          4TH HIGHEST VALUE IS       0.01736 AT (  362429.00,  3764620.00,    21.90,    21.90,    9.50)  DC
          5TH HIGHEST VALUE IS       0.01734 AT (  362432.00,  3764623.00,    21.90,    21.90,    9.50)  DC
          6TH HIGHEST VALUE IS       0.01728 AT (  362426.10,  3764618.40,    21.90,    21.90,    9.50)  DC
          7TH HIGHEST VALUE IS       0.01718 AT (  362426.00,  3764620.00,    21.90,    21.90,    9.50)  DC
          8TH HIGHEST VALUE IS       0.01715 AT (  362429.00,  3764623.00,    21.90,    21.90,    9.50)  DC
          9TH HIGHEST VALUE IS       0.01714 AT (  362423.00,  3764617.50,    21.90,    21.90,    9.50)  DC
         10TH HIGHEST VALUE IS       0.01707 AT (  362432.00,  3764626.00,    21.90,    21.90,    9.50)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          799 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          455 Calm Hours Identified

 A Total of          344 Missing Hours Identified (  0.78 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     666       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     666       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   137 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates ANNUAL Averages Only

**This Run Includes: 137 Source(s);   1 Source Group(s); and   222 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 137 VOLUME source(s)
                and: 0 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 RLINE/RLINEXT source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   53.20 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_FIFTH.DTA
**Output Print File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_FIFTH.LST

**File for Summary of Results: E:\WD Passport\1640 5th street\model\DPM_2012-2016_FIFTH.SUM

```
 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                      ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                   ***        08:43:26
                                                                                                                       PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                                  *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                   (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



                                        *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                  (METERS/SEC)

                                                       1.54,   3.09,   5.14,   8.23,  10.80,

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                      ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                   ***        08:43:26
                                                                                                                       PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                          *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.SFC                               Met Version:  16216
   Profile file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    93197                 Upper air station no.:     3190
                  Name: SANTA MONICA MUNICIPAL AIRPORT, CA         Name: UNKNOWN
                  Year:   2012                                     Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 12 01 01   1 01   -6.6  0.113 -9.000 -9.000 -999.   91.      19.8  0.17   2.20   1.00    1.26  131.    10.1  283.1    2.0
 12 01 01   1 02   -7.6  0.121 -9.000 -9.000 -999.  101.      21.3  0.17   2.20   1.00    1.35  232.    10.1  282.0    2.0
 12 01 01   1 03   -3.3  0.082 -9.000 -9.000 -999.   57.      15.3  0.17   2.20   1.00    0.86   46.    10.1  280.9    2.0
 12 01 01   1 04   -5.4  0.102 -9.000 -9.000 -999.   79.      17.9  0.17   2.20   1.00    1.14   82.    10.1  281.4    2.0
 12 01 01   1 05   -6.6  0.113 -9.000 -9.000 -999.   91.      19.8  0.17   2.20   1.00    1.26  205.    10.1  281.4    2.0
 12 01 01   1 06   -7.4  0.119 -9.000 -9.000 -999.   99.      20.9  0.17   2.20   1.00    1.33  254.    10.1  280.9    2.0
 12 01 01   1 07   -4.6  0.094 -9.000 -9.000 -999.   70.      16.6  0.17   2.20   1.00    1.04   39.    10.1  279.2    2.0
 12 01 01   1 08  -16.0  0.197 -9.000 -9.000 -999.  209.      43.0  0.17   2.20   0.54    2.10   63.    10.1  282.0    2.0
 12 01 01   1 09   36.8  0.255  0.339  0.005   38.  309.     -40.8  0.17   2.20   0.31    2.27   33.    10.1  292.0    2.0
 12 01 01   1 10  102.6  0.234  0.691  0.006  117.  271.     -11.3  0.17   2.20   0.23    1.79  204.    10.1  289.2    2.0
 12 01 01   1 11  154.6  0.178  1.118  0.005  327.  181.      -3.3  0.17   2.20   0.20    1.11  119.    10.1  296.4    2.0
 12 01 01   1 12  182.0  0.295  1.459  0.005  618.  385.     -12.8  0.17   2.20   0.19    2.30   76.    10.1  300.9    2.0
 12 01 01   1 13  175.0  0.355  1.686  0.005  991.  507.     -23.0  0.17   2.20   0.19    2.98  179.    10.1  293.8    2.0
 12 01 01   1 14  148.1  0.374  1.737  0.005 1282.  549.     -31.9  0.17   2.20   0.20    3.25  211.    10.1  292.0    2.0
 12 01 01   1 15   98.0  0.291  1.572  0.005 1436.  380.     -22.7  0.17   2.20   0.23    2.44  231.    10.1  290.9    2.0
 12 01 01   1 16   28.2  0.303  1.044  0.005 1460.  400.     -89.0  0.17   2.20   0.32    2.85  217.    10.1  289.2    2.0
 12 01 01   1 17  -22.4  0.259 -9.000 -9.000 -999.  317.      73.7  0.17   2.20   0.58    2.73  226.    10.1  287.0    2.0
 12 01 01   1 18   -8.7  0.131 -9.000 -9.000 -999.  124.      23.3  0.17   2.20   1.00    1.45  230.    10.1  286.4    2.0
 12 01 01   1 19  -13.2  0.163 -9.000 -9.000 -999.  157.      29.4  0.17   2.20   1.00    1.77  225.    10.1  285.9    2.0
 12 01 01   1 20   -5.7  0.106 -9.000 -9.000 -999.   83.      18.6  0.17   2.20   1.00    1.18  182.    10.1  284.9    2.0
 12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17   2.20   1.00    0.00    0.    10.1  284.2    2.0
 12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.      21.1  0.17   2.20   1.00    1.33  202.    10.1  285.4    2.0
 12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.      19.1  0.17   2.20   1.00    1.21  251.    10.1  284.9    2.0
 12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.      18.0  0.17   2.20   1.00    1.14  224.    10.1  284.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
```

```
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                          NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.01125 AT (  362435.00,  3764623.00,    21.90,    21.90,   12.60)  DC
          2ND HIGHEST VALUE IS       0.01123 AT (  362434.90,  3764621.30,    21.90,    21.90,   12.60)  DC
          3RD HIGHEST VALUE IS       0.01117 AT (  362432.00,  3764626.00,    21.90,    21.90,   12.60)  DC
          4TH HIGHEST VALUE IS       0.01116 AT (  362432.00,  3764623.00,    21.90,    21.90,   12.60)  DC
          5TH HIGHEST VALUE IS       0.01112 AT (  362431.80,  3764620.30,    21.90,    21.90,   12.60)  DC
          6TH HIGHEST VALUE IS       0.01106 AT (  362429.00,  3764623.00,    21.90,    21.90,   12.60)  DC
          7TH HIGHEST VALUE IS       0.01106 AT (  362429.00,  3764626.00,    21.90,    21.90,   12.60)  DC
          8TH HIGHEST VALUE IS       0.01103 AT (  362429.00,  3764620.00,    21.90,    21.90,   12.60)  DC
          9TH HIGHEST VALUE IS       0.01101 AT (  362429.00,  3764629.00,    21.90,    21.90,   12.60)  DC
         10TH HIGHEST VALUE IS       0.01096 AT (  362426.00,  3764623.00,    21.90,    21.90,   12.60)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          799 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          455 Calm Hours Identified

 A Total of          344 Missing Hours Identified (  0.78 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     666       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     666       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   137 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates ANNUAL Averages Only

**This Run Includes: 137 Source(s);   1 Source Group(s); and   222 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 137 VOLUME source(s)
                and: 0 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 RLINE/RLINEXT source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   53.20 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_SIXTH.DTA
**Output Print File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_SIXTH.LST

**File for Summary of Results: E:\WD Passport\1640 5th street\model\DPM_2012-2016_SIXTH.SUM

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: E:\WD Passport\1640 5th street\metdata\KSMO_v9.SFC   Met Version: 16216
Profile file: E:\WD Passport\1640 5th street\metdata\KSMO_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.:   93197   Upper air station no.:   3190
Name: SANTA MONICA MUNICIPAL AIRPORT, CA   Name: UNKNOWN
Year: 2012   Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-6.6	0.113	-9.000	-9.000	-999.	91.	19.8	0.17	2.20	1.00	1.26	131.	10.1	283.1	2.0
12	01	01	1	02	-7.6	0.121	-9.000	-9.000	-999.	101.	21.3	0.17	2.20	1.00	1.35	232.	10.1	282.0	2.0
12	01	01	1	03	-3.3	0.082	-9.000	-9.000	-999.	57.	15.3	0.17	2.20	1.00	0.86	46.	10.1	280.9	2.0
12	01	01	1	04	-5.4	0.102	-9.000	-9.000	-999.	79.	17.9	0.17	2.20	1.00	1.14	82.	10.1	281.4	2.0
12	01	01	1	05	-6.6	0.113	-9.000	-9.000	-999.	91.	19.8	0.17	2.20	1.00	1.26	205.	10.1	281.4	2.0
12	01	01	1	06	-7.4	0.119	-9.000	-9.000	-999.	99.	20.9	0.17	2.20	1.00	1.33	254.	10.1	280.9	2.0
12	01	01	1	07	-4.6	0.094	-9.000	-9.000	-999.	70.	16.6	0.17	2.20	1.00	1.04	39.	10.1	279.2	2.0
12	01	01	1	08	-16.0	0.197	-9.000	-9.000	-999.	209.	43.0	0.17	2.20	0.54	2.10	63.	10.1	282.0	2.0
12	01	01	1	09	36.8	0.255	0.339	0.005	38.	309.	-40.8	0.17	2.20	0.31	2.27	33.	10.1	292.0	2.0
12	01	01	1	10	102.6	0.234	0.691	0.006	117.	271.	-11.3	0.17	2.20	0.23	1.79	204.	10.1	289.2	2.0
12	01	01	1	11	154.6	0.178	1.118	0.005	327.	181.	-3.3	0.17	2.20	0.20	1.11	119.	10.1	296.4	2.0
12	01	01	1	12	182.0	0.295	1.459	0.005	618.	385.	-12.8	0.17	2.20	0.19	2.30	76.	10.1	300.9	2.0
12	01	01	1	13	175.0	0.355	1.686	0.005	991.	507.	-23.0	0.17	2.20	0.19	2.98	179.	10.1	293.8	2.0
12	01	01	1	14	148.1	0.374	1.737	0.005	1282.	549.	-31.9	0.17	2.20	0.20	3.25	211.	10.1	292.0	2.0
12	01	01	1	15	98.0	0.291	1.572	0.005	1436.	380.	-22.7	0.17	2.20	0.23	2.44	231.	10.1	290.9	2.0
12	01	01	1	16	28.2	0.303	1.044	0.005	1460.	400.	-89.0	0.17	2.20	0.32	2.85	217.	10.1	289.2	2.0
12	01	01	1	17	-22.4	0.259	-9.000	-9.000	-999.	317.	73.7	0.17	2.20	0.58	2.73	226.	10.1	287.0	2.0
12	01	01	1	18	-8.7	0.131	-9.000	-9.000	-999.	124.	23.3	0.17	2.20	1.00	1.45	230.	10.1	286.4	2.0
12	01	01	1	19	-13.2	0.163	-9.000	-9.000	-999.	157.	29.4	0.17	2.20	1.00	1.77	225.	10.1	285.9	2.0
12	01	01	1	20	-5.7	0.106	-9.000	-9.000	-999.	83.	18.6	0.17	2.20	1.00	1.18	182.	10.1	284.9	2.0
12	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.17	2.20	1.00	0.00	0.	10.1	284.2	2.0
12	01	01	1	22	-7.3	0.119	-9.000	-9.000	-999.	99.	21.1	0.17	2.20	1.00	1.33	202.	10.1	285.4	2.0
12	01	01	1	23	-6.0	0.108	-9.000	-9.000	-999.	86.	19.1	0.17	2.20	1.00	1.21	251.	10.1	284.9	2.0
12	01	01	1	24	-5.4	0.102	-9.000	-9.000	-999.	78.	18.0	0.17	2.20	1.00	1.14	224.	10.1	284.2	2.0

First hour of profile data

YR MO DY HR HEIGHT F WDIR   WSPD AMB_TMP sigmaA sigmaW sigmaV

```
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                 ***        09:31:08
                                                                                                                   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                          NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.00743 AT (  362432.00,  3764626.00,    21.90,    21.90,   15.60)  DC
          2ND HIGHEST VALUE IS       0.00743 AT (  362435.00,  3764623.00,    21.90,    21.90,   15.60)  DC
          3RD HIGHEST VALUE IS       0.00740 AT (  362429.00,  3764629.00,    21.90,    21.90,   15.60)  DC
          4TH HIGHEST VALUE IS       0.00739 AT (  362434.90,  3764621.30,    21.90,    21.90,   15.60)  DC
          5TH HIGHEST VALUE IS       0.00738 AT (  362432.00,  3764623.00,    21.90,    21.90,   15.60)  DC
          6TH HIGHEST VALUE IS       0.00737 AT (  362429.00,  3764626.00,    21.90,    21.90,   15.60)  DC
          7TH HIGHEST VALUE IS       0.00734 AT (  362426.00,  3764632.00,    21.90,    21.90,   15.60)  DC
          8TH HIGHEST VALUE IS       0.00733 AT (  362426.00,  3764629.00,    21.90,    21.90,   15.60)  DC
          9TH HIGHEST VALUE IS       0.00732 AT (  362429.00,  3764623.00,    21.90,    21.90,   15.60)  DC
         10TH HIGHEST VALUE IS       0.00731 AT (  362431.80,  3764620.30,    21.90,    21.90,   15.60)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                 ***        09:31:08
                                                                                                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          799 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          455 Calm Hours Identified

 A Total of          344 Missing Hours Identified (  0.78 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     666       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     666       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   137 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates ANNUAL Averages Only

**This Run Includes: 137 Source(s);   1 Source Group(s); and   222 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 137 VOLUME source(s)
                and: 0 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 RLINE/RLINEXT source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   53.20 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_SEVENTH.DTA
**Output Print File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_SEVENTH.LST

**File for Summary of Results: E:\WD Passport\1640 5th street\model\DPM_2012-2016_SEVENTH.SUM

```
                                             *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                              (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



                                     *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                (METERS/SEC)

                                                   1.54,   3.09,   5.14,   8.23,  10.80,
```

```
                                        *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.SFC                              Met Version:  16216
   Profile file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    93197                 Upper air station no.:     3190
                  Name: SANTA MONICA MUNICIPAL AIRPORT, CA         Name: UNKNOWN
                  Year:   2012                                     Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  131.    10.1  283.1    2.0
 12 01 01   1 02   -7.6  0.121 -9.000 -9.000 -999.  101.     21.3  0.17   2.20   1.00    1.35  232.    10.1  282.0    2.0
 12 01 01   1 03   -3.3  0.082 -9.000 -9.000 -999.   57.     15.3  0.17   2.20   1.00    0.86   46.    10.1  280.9    2.0
 12 01 01   1 04   -5.4  0.102 -9.000 -9.000 -999.   79.     17.9  0.17   2.20   1.00    1.14   82.    10.1  281.4    2.0
 12 01 01   1 05   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  205.    10.1  281.4    2.0
 12 01 01   1 06   -7.4  0.119 -9.000 -9.000 -999.   99.     20.9  0.17   2.20   1.00    1.33  254.    10.1  280.9    2.0
 12 01 01   1 07   -4.6  0.094 -9.000 -9.000 -999.   70.     16.6  0.17   2.20   1.00    1.04   39.    10.1  279.2    2.0
 12 01 01   1 08  -16.0  0.197 -9.000 -9.000 -999.  209.     43.0  0.17   2.20   0.54    2.10   63.    10.1  282.0    2.0
 12 01 01   1 09   36.8  0.255  0.339  0.005   38.  309.    -40.8  0.17   2.20   0.31    2.27   33.    10.1  292.0    2.0
 12 01 01   1 10  102.6  0.234  0.691  0.006  117.  271.    -11.3  0.17   2.20   0.23    1.79  204.    10.1  289.2    2.0
 12 01 01   1 11  154.6  0.178  1.118  0.005  327.  181.     -3.3  0.17   2.20   0.20    1.11  119.    10.1  296.4    2.0
 12 01 01   1 12  182.0  0.295  1.459  0.005  618.  385.    -12.8  0.17   2.20   0.19    2.30   76.    10.1  300.9    2.0
 12 01 01   1 13  175.0  0.355  1.686  0.005  991.  507.    -23.0  0.17   2.20   0.19    2.98  179.    10.1  293.8    2.0
 12 01 01   1 14  148.1  0.374  1.737  0.005 1282.  549.    -31.9  0.17   2.20   0.20    3.25  211.    10.1  292.0    2.0
 12 01 01   1 15   98.0  0.291  1.572  0.005 1436.  380.    -22.7  0.17   2.20   0.23    2.44  231.    10.1  290.9    2.0
 12 01 01   1 16   28.2  0.303  1.044  0.005 1460.  400.    -89.0  0.17   2.20   0.32    2.85  217.    10.1  289.2    2.0
 12 01 01   1 17  -22.4  0.259 -9.000 -9.000 -999.  317.     73.7  0.17   2.20   0.58    2.73  226.    10.1  287.0    2.0
 12 01 01   1 18   -8.7  0.131 -9.000 -9.000 -999.  124.     23.3  0.17   2.20   1.00    1.45  230.    10.1  286.4    2.0
 12 01 01   1 19  -13.2  0.163 -9.000 -9.000 -999.  157.     29.4  0.17   2.20   1.00    1.77  225.    10.1  285.9    2.0
 12 01 01   1 20   -5.7  0.106 -9.000 -9.000 -999.   83.     18.6  0.17   2.20   1.00    1.18  182.    10.1  284.9    2.0
 12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17   2.20   1.00    0.00    0.    10.1  284.2    2.0
 12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.     21.1  0.17   2.20   1.00    1.33  202.    10.1  285.4    2.0
 12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.     19.1  0.17   2.20   1.00    1.21  251.    10.1  284.9    2.0
 12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.     18.0  0.17   2.20   1.00    1.14  224.    10.1  284.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
```

```
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***


                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                          NETWORK
GROUP ID                      AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.00501 AT (  362429.00,  3764629.00,    21.90,    21.90,   18.70)  DC
          2ND HIGHEST VALUE IS       0.00500 AT (  362426.00,  3764632.00,    21.90,    21.90,   18.70)  DC
          3RD HIGHEST VALUE IS       0.00500 AT (  362432.00,  3764626.00,    21.90,    21.90,   18.70)  DC
          4TH HIGHEST VALUE IS       0.00498 AT (  362435.00,  3764623.00,    21.90,    21.90,   18.70)  DC
          5TH HIGHEST VALUE IS       0.00498 AT (  362423.00,  3764635.00,    21.90,    21.90,   18.70)  DC
          6TH HIGHEST VALUE IS       0.00497 AT (  362426.00,  3764629.00,    21.90,    21.90,   18.70)  DC
          7TH HIGHEST VALUE IS       0.00497 AT (  362429.00,  3764626.00,    21.90,    21.90,   18.70)  DC
          8TH HIGHEST VALUE IS       0.00496 AT (  362423.00,  3764632.00,    21.90,    21.90,   18.70)  DC
          9TH HIGHEST VALUE IS       0.00495 AT (  362432.00,  3764623.00,    21.90,    21.90,   18.70)  DC
         10TH HIGHEST VALUE IS       0.00494 AT (  362434.90,  3764621.30,    21.90,    21.90,   18.70)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          799 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          455 Calm Hours Identified

 A Total of          344 Missing Hours Identified (  0.78 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     666       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     666       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   137 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates ANNUAL Averages Only

**This Run Includes: 137 Source(s);   1 Source Group(s); and   222 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 137 VOLUME source(s)
                and: 0 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 RLINE/RLINEXT source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   53.20 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_EIGHTH.DTA
**Output Print File: E:\WD Passport\1640 5th street\model\DPM_2012-2016_EIGHTH.LST

**File for Summary of Results: E:\WD Passport\1640 5th street\model\DPM_2012-2016_EIGHTH.SUM

```
 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                      ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                   ***        13:51:33
                                                                                                                       PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                               *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



                                       *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                (METERS/SEC)

                                                    1.54,   3.09,   5.14,   8.23,  10.80,

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                      ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                   ***        13:51:33
                                                                                                                       PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                         *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.SFC                                Met Version:  16216
   Profile file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    93197                  Upper air station no.:     3190
                  Name: SANTA MONICA MUNICIPAL AIRPORT, CA         Name: UNKNOWN
                  Year:   2012                                     Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  131.    10.1  283.1    2.0
 12 01 01   1 02   -7.6  0.121 -9.000 -9.000 -999.  101.     21.3  0.17   2.20   1.00    1.35  232.    10.1  282.0    2.0
 12 01 01   1 03   -3.3  0.082 -9.000 -9.000 -999.   57.     15.3  0.17   2.20   1.00    0.86   46.    10.1  280.9    2.0
 12 01 01   1 04   -5.4  0.102 -9.000 -9.000 -999.   79.     17.9  0.17   2.20   1.00    1.14   82.    10.1  281.4    2.0
 12 01 01   1 05   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  205.    10.1  281.4    2.0
 12 01 01   1 06   -7.4  0.119 -9.000 -9.000 -999.   99.     20.9  0.17   2.20   1.00    1.33  254.    10.1  280.9    2.0
 12 01 01   1 07   -4.6  0.094 -9.000 -9.000 -999.   70.     16.6  0.17   2.20   1.00    1.04   39.    10.1  279.2    2.0
 12 01 01   1 08  -16.0  0.197 -9.000 -9.000 -999.  209.     43.0  0.17   2.20   0.54    2.10   63.    10.1  282.0    2.0
 12 01 01   1 09   36.8  0.255  0.339  0.005   38.  309.    -40.8  0.17   2.20   0.31    2.27   33.    10.1  292.0    2.0
 12 01 01   1 10  102.6  0.234  0.691  0.006  117.  271.    -11.3  0.17   2.20   0.23    1.79  204.    10.1  289.2    2.0
 12 01 01   1 11  154.6  0.178  1.118  0.005  327.  181.     -3.3  0.17   2.20   0.20    1.11  119.    10.1  296.4    2.0
 12 01 01   1 12  182.0  0.295  1.459  0.005  618.  385.    -12.8  0.17   2.20   0.19    2.30   76.    10.1  300.9    2.0
 12 01 01   1 13  175.0  0.355  1.686  0.005  991.  507.    -23.0  0.17   2.20   0.19    2.98  179.    10.1  293.8    2.0
 12 01 01   1 14  148.1  0.374  1.737  0.005 1282.  549.    -31.9  0.17   2.20   0.20    3.25  211.    10.1  292.0    2.0
 12 01 01   1 15   98.0  0.291  1.572  0.005 1436.  380.    -22.7  0.17   2.20   0.23    2.44  231.    10.1  290.9    2.0
 12 01 01   1 16   28.2  0.303  1.044  0.005 1460.  400.    -89.0  0.17   2.20   0.32    2.85  217.    10.1  289.2    2.0
 12 01 01   1 17  -22.4  0.259 -9.000 -9.000 -999.  317.     73.7  0.17   2.20   0.58    2.73  226.    10.1  287.0    2.0
 12 01 01   1 18   -8.7  0.131 -9.000 -9.000 -999.  124.     23.3  0.17   2.20   1.00    1.45  230.    10.1  286.4    2.0
 12 01 01   1 19  -13.2  0.163 -9.000 -9.000 -999.  157.     29.4  0.17   2.20   1.00    1.77  225.    10.1  285.9    2.0
 12 01 01   1 20   -5.7  0.106 -9.000 -9.000 -999.   83.     18.6  0.17   2.20   1.00    1.18  182.    10.1  284.9    2.0
 12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17   2.20   1.00    0.00    0.    10.1  284.2    2.0
 12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.     21.1  0.17   2.20   1.00    1.33  202.    10.1  285.4    2.0
 12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.     19.1  0.17   2.20   1.00    1.21  251.    10.1  284.9    2.0
 12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.     18.0  0.17   2.20   1.00    1.14  224.    10.1  284.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
```

```
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                 ***        13:51:33
                                                                                                                   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                         **

                                                                                                          NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.00352 AT (  362423.00,  3764635.00,    21.90,    21.90,   21.80)  DC
          2ND HIGHEST VALUE IS       0.00352 AT (  362426.00,  3764632.00,    21.90,    21.90,   21.80)  DC
          3RD HIGHEST VALUE IS       0.00351 AT (  362420.00,  3764638.00,    21.90,    21.90,   21.80)  DC
          4TH HIGHEST VALUE IS       0.00351 AT (  362429.00,  3764629.00,    21.90,    21.90,   21.80)  DC
          5TH HIGHEST VALUE IS       0.00350 AT (  362423.00,  3764632.00,    21.90,    21.90,   21.80)  DC
          6TH HIGHEST VALUE IS       0.00350 AT (  362420.00,  3764635.00,    21.90,    21.90,   21.80)  DC
          7TH HIGHEST VALUE IS       0.00349 AT (  362417.00,  3764641.00,    21.90,    21.90,   21.80)  DC
          8TH HIGHEST VALUE IS       0.00349 AT (  362426.00,  3764629.00,    21.90,    21.90,   21.80)  DC
          9TH HIGHEST VALUE IS       0.00349 AT (  362432.00,  3764626.00,    21.90,    21.90,   21.80)  DC
         10TH HIGHEST VALUE IS       0.00349 AT (  362417.00,  3764638.00,    21.90,    21.90,   21.80)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        07/11/24
 *** AERMET - VERSION  16216 ***   *** Particulates / DPM                                                 ***        13:51:33
                                                                                                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          799 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          455 Calm Hours Identified

 A Total of          344 Missing Hours Identified (  0.78 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     666       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     666       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   137 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates 2 Short Term Average(s) of: 1-HR   8-HR

**This Run Includes: 137 Source(s);   1 Source Group(s); and   222 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 137 VOLUME source(s)
                and: 0 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 RLINE/RLINEXT source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   53.20 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: E:\WD Passport\1640 5th street\model\CO_2012-2016_FIRST.DTA
**Output Print File: E:\WD Passport\1640 5th street\model\CO_2012-2016_FIRST.LST

**File for Summary of Results: E:\WD Passport\1640 5th street\model\CO_2012-2016_FIRST.SUM

```
 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                         ***        06/18/24
 *** AERMET - VERSION  16216 ***   *** Carbon Monoxide (CO)                                                    ***        16:44:25
                                                                                                                          PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                            *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                               (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                            (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,  10.80,

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                         ***        06/18/24
 *** AERMET - VERSION  16216 ***   *** Carbon Monoxide (CO)                                                    ***        16:44:25

                                                                                                                          PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                    *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.SFC                                 Met Version:  16216
   Profile file:   E:\WD Passport\1640 5th street\metdata\KSMO_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    93197                 Upper air station no.:     3190
                  Name: SANTA MONICA MUNICIPAL AIRPORT, CA         Name: UNKNOWN
                  Year:   2012                                     Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  131.   10.1  283.1    2.0
 12 01 01   1 02   -7.6  0.121 -9.000 -9.000 -999.  101.     21.3  0.17   2.20   1.00    1.35  232.   10.1  282.0    2.0
 12 01 01   1 03   -3.3  0.082 -9.000 -9.000 -999.   57.     15.3  0.17   2.20   1.00    0.86   46.   10.1  280.9    2.0
 12 01 01   1 04   -5.4  0.102 -9.000 -9.000 -999.   79.     17.9  0.17   2.20   1.00    1.14   82.   10.1  281.4    2.0
 12 01 01   1 05   -6.6  0.113 -9.000 -9.000 -999.   91.     19.8  0.17   2.20   1.00    1.26  205.   10.1  281.4    2.0
 12 01 01   1 06   -7.4  0.119 -9.000 -9.000 -999.   99.     20.9  0.17   2.20   1.00    1.33  254.   10.1  280.9    2.0
 12 01 01   1 07   -4.6  0.094 -9.000 -9.000 -999.   70.     16.6  0.17   2.20   1.00    1.04   39.   10.1  279.2    2.0
 12 01 01   1 08  -16.0  0.197 -9.000 -9.000 -999.  209.     43.0  0.17   2.20   0.54    2.10   63.   10.1  282.0    2.0
 12 01 01   1 09   36.8  0.255  0.339  0.005   38.  309.    -40.8  0.17   2.20   0.31    2.27   33.   10.1  292.0    2.0
 12 01 01   1 10  102.6  0.234  0.691  0.006  117.  271.    -11.3  0.17   2.20   0.23    1.79  204.   10.1  289.2    2.0
 12 01 01   1 11  154.6  0.178  1.118  0.005  327.  181.     -3.3  0.17   2.20   0.20    1.11  119.   10.1  296.4    2.0
 12 01 01   1 12  182.0  0.295  1.459  0.005  618.  385.    -12.8  0.17   2.20   0.19    2.30   76.   10.1  300.9    2.0
 12 01 01   1 13  175.0  0.355  1.686  0.005  991.  507.    -23.0  0.17   2.20   0.19    2.98  179.   10.1  293.8    2.0
 12 01 01   1 14  148.1  0.374  1.737  0.005 1282.  549.    -31.9  0.17   2.20   0.20    3.25  211.   10.1  292.0    2.0
 12 01 01   1 15   98.0  0.291  1.572  0.005 1436.  380.    -22.7  0.17   2.20   0.23    2.44  231.   10.1  290.9    2.0
 12 01 01   1 16   28.2  0.303  1.044  0.005 1460.  400.    -89.0  0.17   2.20   0.32    2.85  217.   10.1  289.2    2.0
 12 01 01   1 17  -22.4  0.259 -9.000 -9.000 -999.  317.     73.7  0.17   2.20   0.58    2.73  226.   10.1  287.0    2.0
 12 01 01   1 18   -8.7  0.131 -9.000 -9.000 -999.  124.     23.3  0.17   2.20   1.00    1.45  230.   10.1  286.4    2.0
 12 01 01   1 19  -13.2  0.163 -9.000 -9.000 -999.  157.     29.4  0.17   2.20   1.00    1.77  225.   10.1  285.9    2.0
 12 01 01   1 20   -5.7  0.106 -9.000 -9.000 -999.   83.     18.6  0.17   2.20   1.00    1.18  182.   10.1  284.9    2.0
 12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17   2.20   1.00    0.00    0.   10.1  284.2    2.0
 12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.     21.1  0.17   2.20   1.00    1.33  202.   10.1  285.4    2.0
 12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.     19.1  0.17   2.20   1.00    1.21  251.   10.1  284.9    2.0
 12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.     18.0  0.17   2.20   1.00    1.14  224.   10.1  284.2    2.0


 First hour of profile data
```

```
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```



```
                                          *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                 DATE
NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE
GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
-

ALL      HIGH   1ST HIGH VALUE IS     215.80201  ON 12020617: AT (  362434.90,  3764621.30,    21.90,    21.90,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```



```
                                          *** THE SUMMARY OF HIGHEST  8-HR RESULTS ***


                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                 DATE
NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE
GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
-

ALL      HIGH   1ST HIGH VALUE IS     139.08569c ON 12112224: AT (  362434.90,  3764621.30,    21.90,    21.90,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```



```
 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          799 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          455 Calm Hours Identified
```

```
A Total of          344 Missing Hours Identified (  0.78 Percent)
   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     666       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     666       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT ARM2 URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Ambient Ratio Method Ver 2 (ARM2) Used for NO2 Conversion
        with a Minimum NO2/NOx Ratio of 0.500
        and a Maximum NO2/NOx Ratio of 0.900
     * Model Uses URBAN Dispersion Algorithm for the SBL for   137 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: NO2

**NOTE: Special processing requirements applicable for the 1-hour NO2 NAAQS have been disabled!!!
        User has specified H1H on the POLLUTID keyword.
        High ranked 1-hour values are NOT averaged across the number of years modeled, and
        complete years of data are NOT required.

**Model Calculates 1 Short Term Average(s) of: 1-HR

**This Run Includes: 137 Source(s);   1 Source Group(s); and   222 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 137 VOLUME source(s)
                and: 0 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 RLINE/RLINEXT source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   53.20 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File: E:\WD Passport\1640 5th street\model\NO2_2012-2016_NO2.DTA
**Output Print File: E:\WD Passport\1640 5th street\model\NO2_2012-2016_NO2.LST

**File for Summary of Results: E:\WD Passport\1640 5th street\model\NO2_2012-2016_NO2.SUM

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT ARM2 URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2012   1 1 1
AND END DATE: 2012 12 31 24

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT ARM2 URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: E:\WD Passport\1640 5th street\metdata\KSMO_v9.SFC   Met Version: 16216
Profile file: E:\WD Passport\1640 5th street\metdata\KSMO_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.:   93197   Upper air station no.:   3190
Name: SANTA MONICA MUNICIPAL AIRPORT, CA   Name: UNKNOWN
Year: 2012   Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-6.6	0.113	-9.000	-9.000	-999.	91.	19.8	0.17	2.20	1.00	1.26	131.	10.1	283.1	2.0
12	01	01	1	02	-7.6	0.121	-9.000	-9.000	-999.	101.	21.3	0.17	2.20	1.00	1.35	232.	10.1	282.0	2.0
12	01	01	1	03	-3.3	0.082	-9.000	-9.000	-999.	57.	15.3	0.17	2.20	1.00	0.86	46.	10.1	280.9	2.0
12	01	01	1	04	-5.4	0.102	-9.000	-9.000	-999.	79.	17.9	0.17	2.20	1.00	1.14	82.	10.1	281.4	2.0
12	01	01	1	05	-6.6	0.113	-9.000	-9.000	-999.	91.	19.8	0.17	2.20	1.00	1.26	205.	10.1	281.4	2.0
12	01	01	1	06	-7.4	0.119	-9.000	-9.000	-999.	99.	20.9	0.17	2.20	1.00	1.33	254.	10.1	280.9	2.0
12	01	01	1	07	-4.6	0.094	-9.000	-9.000	-999.	70.	16.6	0.17	2.20	1.00	1.04	39.	10.1	279.2	2.0
12	01	01	1	08	-16.0	0.197	-9.000	-9.000	-999.	209.	43.0	0.17	2.20	0.54	2.10	63.	10.1	282.0	2.0
12	01	01	1	09	36.8	0.255	0.339	0.005	38.	309.	-40.8	0.17	2.20	0.31	2.27	33.	10.1	292.0	2.0
12	01	01	1	10	102.6	0.234	0.691	0.006	117.	271.	-11.3	0.17	2.20	0.23	1.79	204.	10.1	289.2	2.0
12	01	01	1	11	154.6	0.178	1.118	0.005	327.	181.	-3.3	0.17	2.20	0.20	1.11	119.	10.1	296.4	2.0
12	01	01	1	12	182.0	0.295	1.459	0.005	618.	385.	-12.8	0.17	2.20	0.19	2.30	76.	10.1	300.9	2.0
12	01	01	1	13	175.0	0.355	1.686	0.005	991.	507.	-23.0	0.17	2.20	0.19	2.98	179.	10.1	293.8	2.0
12	01	01	1	14	148.1	0.374	1.737	0.005	1282.	549.	-31.9	0.17	2.20	0.20	3.25	211.	10.1	292.0	2.0
12	01	01	1	15	98.0	0.291	1.572	0.005	1436.	380.	-22.7	0.17	2.20	0.23	2.44	231.	10.1	290.9	2.0
12	01	01	1	16	28.2	0.303	1.044	0.005	1460.	400.	-89.0	0.17	2.20	0.32	2.85	217.	10.1	289.2	2.0
12	01	01	1	17	-22.4	0.259	-9.000	-9.000	-999.	317.	73.7	0.17	2.20	0.58	2.73	226.	10.1	287.0	2.0
12	01	01	1	18	-8.7	0.131	-9.000	-9.000	-999.	124.	23.3	0.17	2.20	1.00	1.45	230.	10.1	286.4	2.0
12	01	01	1	19	-13.2	0.163	-9.000	-9.000	-999.	157.	29.4	0.17	2.20	1.00	1.77	225.	10.1	285.9	2.0
12	01	01	1	20	-5.7	0.106	-9.000	-9.000	-999.	83.	18.6	0.17	2.20	1.00	1.18	182.	10.1	284.9	2.0

```
 12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17   2.20   1.00    0.00    0.   10.1  284.2    2.0
 12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.     21.1  0.17   2.20   1.00    1.33  202.   10.1  285.4    2.0
 12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.     19.1  0.17   2.20   1.00    1.21  251.   10.1  284.9    2.0
 12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.     18.0  0.17   2.20   1.00    1.14  224.   10.1  284.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        06/18/24
 *** AERMET - VERSION  16216 ***   *** Nitrogen Dioxide (NO2)                                            ***        19:32:25
                                                                                                                  PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  ARM2  URBAN  ADJ_U*

                                            *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                                    ** CONC OF NO2      IN MICROGRAMS/M**3                          **

                                                        DATE
NETWORK
GROUP ID                           AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE
GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
-

ALL      HIGH   1ST HIGH VALUE IS      22.18177  ON 12020617: AT (  362434.90,  3764621.30,    21.90,    21.90,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 23132  ***   *** 1640 5th Street                                                    ***        06/18/24
 *** AERMET - VERSION  16216 ***   *** Nitrogen Dioxide (NO2)                                            ***        19:32:25
                                                                                                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  ARM2  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of          146 Informational Message(s)

 A Total of         8784 Hours Were Processed

 A Total of           98 Calm Hours Identified

 A Total of           47 Missing Hours Identified (  0.54 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 CO W276      12       POLLID: Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled      NO2 H1H
 ME W186     668       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     668       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

Attachment G

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7. California Air Resources Board, 1997. Methods for Assessing Area Source Emissions in California: Volume III (Revised).

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NOTICE OF A VIRTUAL COMMUNITY MEETING

1640 5th Street, Santa Monica, CA

Subject: Proposed Multi-Family Housing Project

Date: July 8, 2024

Time: 6:00 p.m.-8:00 p.m.

Place: The meeting will be held virtually via Zoom. To join the meeting please follow the link below or send a request to the following email address for the meeting link to join and it will be sent directly to you: info@1640fifth.com A clickable Zoom link is available at: https://1640fifth.com/

https://us06web.zoom.us/j/84889511878?pwd=Y0OQMybQqJ4TDz9cBMhgUoHwGUES3T.1

Purpose: The purpose of this meeting is to present information about the proposed project and collect feedback and input from surrounding property owners/residents so that any issues raised may be considered before a formal application is submitted to the City of Santa Monica Planning Division. Project representatives such as the owner/developer, architect and consultant will be present to answer any questions.

Project Location: 1640 5th Street, Santa Monica, CA (see map on reverse)

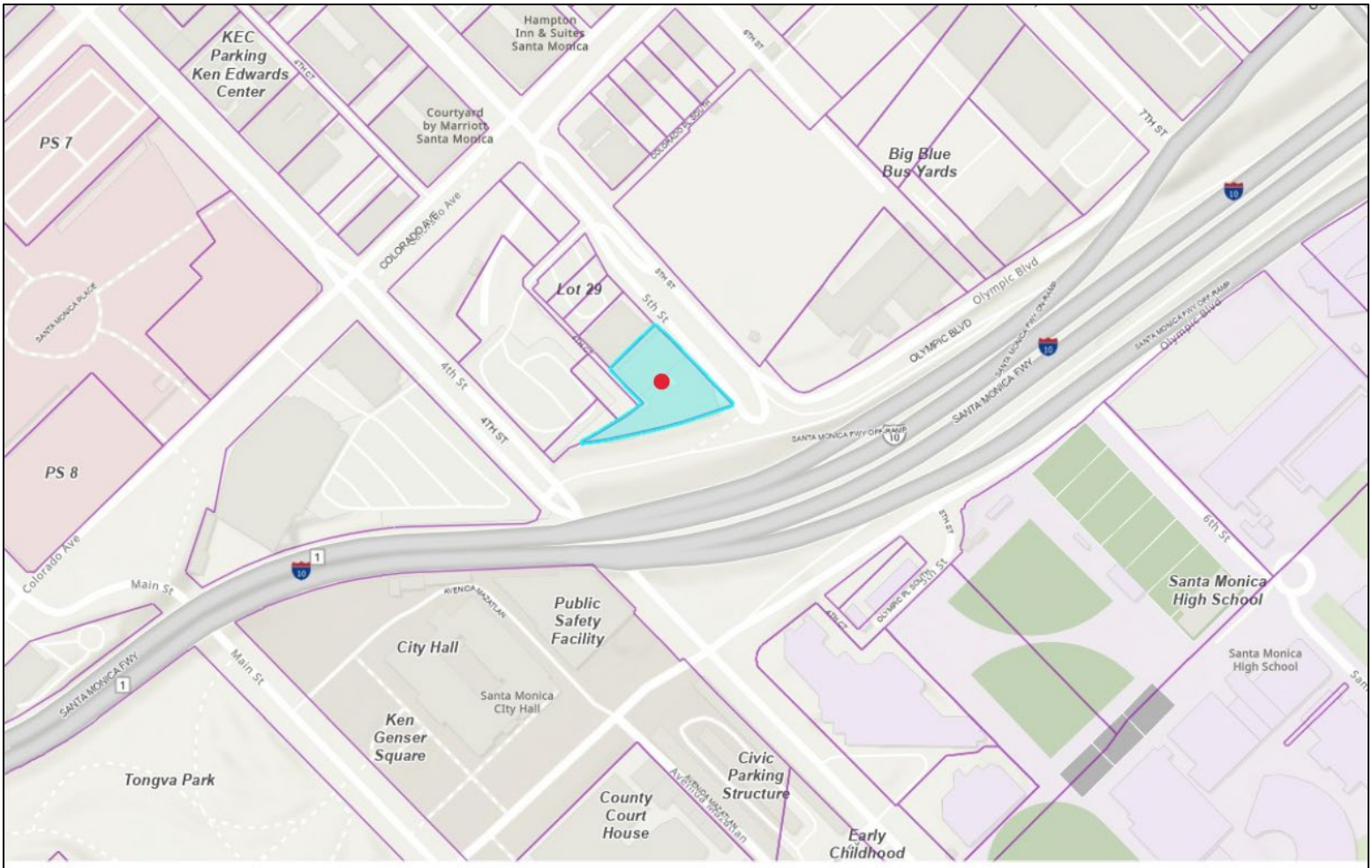
Project Description: Proposed 8-story residential building with a total of 132 residential units (15 deed-restricted affordable units) and three (3) levels of subterranean parking providing a total of 132 parking stalls with electric vehicle charging stations and bicycle parking.

For more information on the project and to view project renderings, please visit the project website:

https://1640fifth.com/

You received notice of this meeting because you are a tenant or owner of property within 750 feet of the subject property. Please note this meeting will be an informational meeting on preliminary development plans. These plans may be altered prior to submittal of a formal application to the City of Santa Monica. We look forward to more specifically discussing the proposed project with you.

Please direct written statements, requests, and other communications to the project email address at: info@1640fifth.com



1640 5th Street Santa Monica, CA

Subject Site

NOTICE OF PENDING VIRTUAL COMMUNITY MEETING

Administrative Approval Application- Housing Projects Pursuant to SMMC 9.39.020(A)(1)

SITE ADDRESS: 1640 5th Street, Santa Monica, CA 90401

PROPOSED PROJECT: The proposed project is a corner lot located at 1640 5th Street at the northwest corner of 5th Street and the Santa Monica Freeway's 5th Street exit. The project consists of an eight story, 132 unit, multi-family residential building, including 15 deed-restricted affordable units. There are three (3) levels of subterranean parking (approximately 132 parking spaces) with electric vehicle charging stations and bicycle parking. The project boasts an ample amount of indoor amenity space located on the ground & 8th floor levels and an ample amount of outdoor open space located at the 8th & rooftop levels with outdoor amenity decks located on the 2nd floor.

APPLICANT: Lincoln Property Company

ADDRESS: 390 N. Pacific Coast Highway Suite 3100
El Segundo, CA 90245

CONTACT INFORMATION: Email: info@1640fifth.com

MEETING DATE: Monday, July 8, 2024 at: 6:00 PM

PROJECT WEBSITE: www.1640fifith.com

COMMENT START DATE: June 24, 2024 **END DATE:** July 15, 2024

For additional information, email Santa Monica Planning Division at planning@santamonica.gov

Para mas informacion, favor mandar un correo electronico a planning@santamonica.gov


City of Santa Monica
NOTICE OF PENDING VIRTUAL COMMUNITY MEETING
Administrative Approval Application- Housing Projects
Pursuant to SMMC 9.31.020(A)(1)
SITE ADDRESS:
PROPOSED PROJECT:
APPLICANT:
ADDRESS:
CONTACT INFORMATION:
MEETING DATE:
PROJECT WEBSITE:
COMMENT START DATE:
END DATE:

City of Santa Monica

NOTICE OF PENDING VIRTUAL COMMUNITY MEETING

Administrative Approval Application- Housing Projects Pursuant to SMMC 9.39.020(A)(1)

SITE ADDRESS: 1640 5th Street, Santa Monica, CA 90401

PROPOSED PROJECT: The proposed project is a corner lot located at 1640 5th Street at the northwest corner of 5th Street and the Santa Monica Freeway's 5th Street exit. The project consists of an eight story, 132 unit, multi-family residential building, including 15 deed-restricted affordable units. There are three (3) levels of subterranean parking (approximately 132 parking spaces) with electric vehicle charging stations and bicycle parking. The project boasts an ample amount of indoor amenity space located on the ground & 8th floor levels and an ample amount of outdoor open space located at the 8th & rooftop levels with outdoor amenity decks located on the 2nd floor.

APPLICANT: 1640 5th Street, LLC c/o Lincoln Property Company

ADDRESS: 390 N. Pacific Coast Highway Suite 3100
El Segundo, CA 90245

CONTACT INFORMATION: Email: info@1640fifth.com

MEETING DATE: Monday, July 8, 2024 at: 6:00 PM

PROJECT WEBSITE: www.1640fifith.com

COMMENT START DATE: June 24, 2024 **END DATE:** July 15, 2024

For additional information, email Santa Monica Planning Division at planning@santamonica.gov

Para mas informacion, favor mandar un correo electronico a planning@santamonica.gov

QMS 24-154

OWNERSHIP LIST

JUNE 10 2024

1
1640 5TH STREET LLC
2000 MCKINNEY AVE STE 1000
DALLAS TX 75201

2,3
SANTA MONICA HOTEL OWNER LLC
5847 SAN FELIPE ST STE 4600
HOUSTON TX 77057

4, 5
SANTA MONICA MALIBU UNIFIED
1651 16TH ST
SANTA MONICA CA 90404

6
FOURWALL LLC
16808 CHARMEL LN
PACIFIC PALISADES CA 90272

7
528 COLORADO LLC
528 COLORADO AVE
SANTA MONICA CA 90401

8
TMJ MEDICAL PROPERTIES LLC
13037 SAN VICENTE BLVD
LOS ANGELES CA 90049

9
STEP UP ON COLORADO
5020 SANTA MONICA BLVD
LOS ANGELES CA 90029

10
XYZ RENT 12 LLC
2800 OLYMPIC BLVD # 1
SANTA MONICA CA 90404

11
CITY SANTA MONICA LESSOR
1423 2ND ST STE B
SANTA MONICA CA 90401

12
L A CO METROPOLITAN
1 GATEWAY PLZ # 99-18
LOS ANGELES CA 90012

13
MARK 302 PROPERTY OWNER LLC
500 5TH AVE STE 1530
NEW YORK NY 10110

14
STATE OF CALIFORNIA
455 GOLDEN GATE AVE
SAN FRANCISCO CA 94102

15
609 COLORADO AVE OWNER LLC
609 COLORADO AVE
SANTA MONICA CA 90401

16
609 COLORADO AVE OWNER LLC
1547 6TH ST
SANTA MONICA CA 90401

17
CP6 1548 6TH ST LLC
2082 MICHELSON DR STE 400
IRVINE CA 92612

18
MANIFEST 5 LLC
525 COLORADO AVE
SANTA MONICA CA 90401

19, 23
PALMETTO HOSPITALITY OF SANTA
100 DUNBAR ST STE 402
SPARTANBURG SC 29306

20
PR SM VERONA LLC
101 CALIFORNIA ST FL 40
SAN FRANCISCO CA 94111

21
DK BROADWAY LLC
233 BROADWAY RM 2305
NEW YORK NY 10279

22
STEP UP ON FIFTH
3701 WILSHIRE BLVD STE 700
LOS ANGELES CA 90010

24
407 COLORADO VENTURES LLC
100 WILSHIRE BLVD STE 2100
SANTA MONICA CA 90401

25
SALVATION ARMY
PO BOX 93002
LONG BEACH CA 90809

26
SALVATION ARMY
16941 KEEGAN AVE
CARSON CA 90746

27
CP6 1539 4TH ST LLC
2082 MICHELSON DR STE 400
IRVINE CA 92612

28
MACERICH SMP LESSOR
PO BOX 4085
SANTA MONICA CA 90411

29
MACERICH SMP LESSOR
PO BOX 847
CARLSBAD CA 92018

30
MACERICH SMP
PO BOX 4085
SANTA MONICA CA 90411

QMS 24-154

OCCUPANT LIST

JUNE 10 2024

1
OCCUPANT
1640 5TH ST
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #100
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #101
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #102
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #103
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #104
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #105
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #106
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #107
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #108
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #109
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #110
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #111
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #112
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #113
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #114
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #115
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #116
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #117
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #118
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #119
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #120
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #200
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #201
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #202
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #203
SANTA MONICA CA 90401

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OCCUPANT
1640 5TH ST #204
SANTA MONICA CA 90401

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OCCUPANT
1640 5TH ST #205
SANTA MONICA CA 90401

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OCCUPANT
1640 5TH ST #206
SANTA MONICA CA 90401

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OCCUPANT
1640 5TH ST #207
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1
OCCUPANT
1640 5TH ST #208
SANTA MONICA CA 90401

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OCCUPANT
1640 5TH ST #209
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1640 5TH ST #210
SANTA MONICA CA 90401

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1640 5TH ST #211
SANTA MONICA CA 90401

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1640 5TH ST #212
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1640 5TH ST #215
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1640 5TH ST #216
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OCCUPANT
1640 5TH ST #217
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1
OCCUPANT
1640 5TH ST #218
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #219
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #220
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #221
SANTA MONICA CA 90401

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OCCUPANT
1640 5TH ST #222
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1
OCCUPANT
1640 5TH ST #223
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #224
SANTA MONICA CA 90401

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OCCUPANT
1640 5TH ST #225
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #226
SANTA MONICA CA 90401

1
OCCUPANT
1640 5TH ST #227
SANTA MONICA CA 90401

2,3
OCCUPANT
1714 5TH ST
SANTA MONICA CA 90401

2,3
OCCUPANT
1714 5TH ST #1
SANTA MONICA CA 90401

2,3
OCCUPANT
1714 5TH ST #2
SANTA MONICA CA 90401

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OCCUPANT
1714 5TH ST #3
SANTA MONICA CA 90401

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OCCUPANT
1714 5TH ST #4
SANTA MONICA CA 90401

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OCCUPANT
1714 5TH ST #5
SANTA MONICA CA 90401

2,3
OCCUPANT
1714 5TH ST #6
SANTA MONICA CA 90401

2,3
OCCUPANT
1714 5TH ST #7
SANTA MONICA CA 90401

2,3
OCCUPANT
1714 5TH ST #8
SANTA MONICA CA 90401

2,3
OCCUPANT
1714 5TH ST #9
SANTA MONICA CA 90401

2,3
OCCUPANT
1714 5TH ST #10
SANTA MONICA CA 90401

4
OCCUPANT
1707 4TH ST
SANTA MONICA CA 90401

4
OCCUPANT
1717 4TH ST
SANTA MONICA CA 90401

4
OCCUPANT
601 PICO BLVD
SANTA MONICA CA 90401

5
OCCUPANT
503 OLYMPIC BLVD
SANTA MONICA CA 90401

5
OCCUPANT
505 OLYMPIC BLVD
SANTA MONICA CA 90401

5
OCCUPANT
1660 7TH ST
SANTA MONICA CA 90401

5
OCCUPANT
623 OLYMPIC BLVD
SANTA MONICA CA 90401

5
OCCUPANT
601 OLYMPIC BLVD
SANTA MONICA CA 90401

5
OCCUPANT
1527 4TH ST #101
SANTA MONICA CA 90401

5
OCCUPANT
1527 4TH ST #102
SANTA MONICA CA 90401

5
OCCUPANT
1527 4TH ST #103
SANTA MONICA CA 90401

5
OCCUPANT
1527 4TH ST #104
SANTA MONICA CA 90401

5
OCCUPANT
1527 4TH ST #105
SANTA MONICA CA 90401

5
OCCUPANT
1527 4TH ST #106
SANTA MONICA CA 90401

5
OCCUPANT
1527 4TH ST #200
SANTA MONICA CA 90401

5
OCCUPANT
1527 4TH ST #250
SANTA MONICA CA 90401

5
OCCUPANT
1527 4TH ST #2ND FLOOR
SANTA MONICA CA 90401

6
OCCUPANT
532 COLORADO AVE
SANTA MONICA CA 90401

6
OCCUPANT
532 COLORADO AVE #2ND FLOOR
SANTA MONICA CA 90401

8
OCCUPANT
524 COLORADO AVE
SANTA MONICA CA 90401

9
OCCUPANT
520 COLORADO AVE
SANTA MONICA CA 90401

9
OCCUPANT
520 COLORADO AVE #100
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9
OCCUPANT
520 COLORADO AVE #101
SANTA MONICA CA 90401

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OCCUPANT
520 COLORADO AVE #102
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520 COLORADO AVE #103
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520 COLORADO AVE #104
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520 COLORADO AVE #106
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520 COLORADO AVE #108
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520 COLORADO AVE #200
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520 COLORADO AVE #201
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520 COLORADO AVE #202
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520 COLORADO AVE #301
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520 COLORADO AVE #302
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502 COLORADO AVE #511
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13
OCCUPANT
302 COLORADO AVE
SANTA MONICA CA 90401

15
OCCUPANT
601 COLORADO AVE
SANTA MONICA CA 90401

15
OCCUPANT
605 COLORADO AVE
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15
OCCUPANT
607 COLORADO AVE
SANTA MONICA CA 90401

15
OCCUPANT
611 COLORADO AVE
SANTA MONICA CA 90401

15
OCCUPANT
613 COLORADO AVE
SANTA MONICA CA 90401

16
OCCUPANT
1547 6TH ST
SANTA MONICA CA 90401

16
OCCUPANT
1547 6TH ST #100
SANTA MONICA CA 90401

16
OCCUPANT
1547 6TH ST #101
SANTA MONICA CA 90401

16
OCCUPANT
1547 6TH ST #200
SANTA MONICA CA 90401

17
OCCUPANT
1548 6TH ST
SANTA MONICA CA 90401

17
OCCUPANT
1548 6TH ST #201
SANTA MONICA CA 90401

17
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1548 6TH ST #206
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17
OCCUPANT
1548 6TH ST #614
SANTA MONICA CA 90401

18
OCCUPANT
523 COLORADO AVE
SANTA MONICA CA 90401

19
OCCUPANT
501 COLORADO AVE
SANTA MONICA CA 90401

19
THE ROW HOUSE
505 COLORADO AVE
SANTA MONICA CA 90401

20
OCCUPANT
1528 6TH ST
SANTA MONICA CA 90401

20
OCCUPANT
1528 6TH ST #LOBBY
SANTA MONICA CA 90401

20
OCCUPANT
1528 6TH ST #120
SANTA MONICA CA 90401

20
OCCUPANT
1528 6TH ST #201
SANTA MONICA CA 90401

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1528 6TH ST #202
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1540 6TH ST #LOBBY
SANTA MONICA CA 90401

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1540 6TH ST #100
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1540 6TH ST #101
SANTA MONICA CA 90401

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OCCUPANT
1540 6TH ST #512
SANTA MONICA CA 90401

21
OCCUPANT
500 BROADWAY
CA

21
OCCUPANT
500 BROADWAY #LOBBY
SANTA MONICA CA 90401

21
OCCUPANT
500 BROADWAY #201
SANTA MONICA CA 90401

21
OCCUPANT
500 BROADWAY #202
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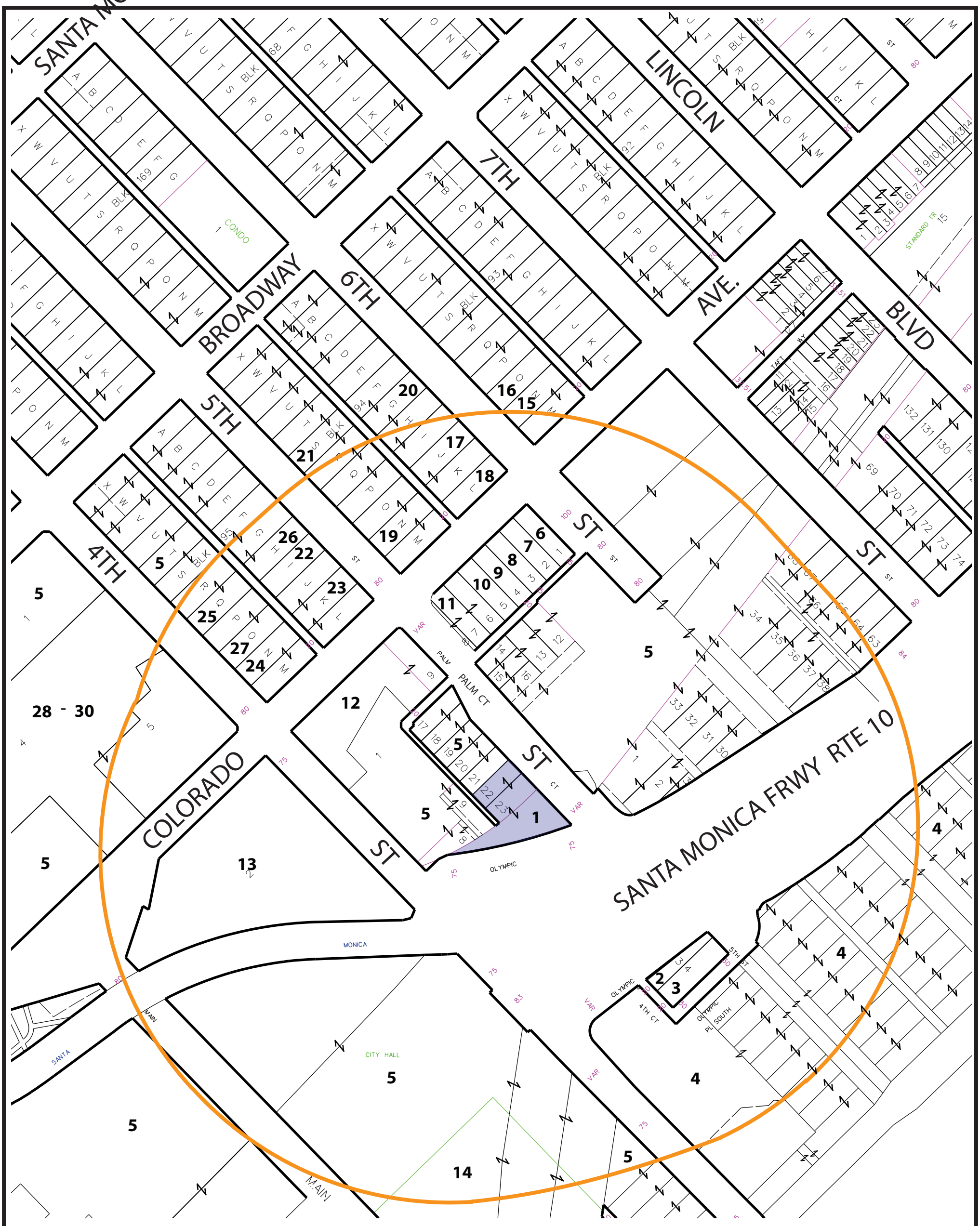

750 FT RADIUS MAP

1640 5TH ST

Quality Mapping Service

14549 Archwood St. Suite 301
Van Nuys, California 91405
Phone (818) 997-7949 - Fax (818) 997-0351
qmapping@qesqms.com

CASE NO:
DATE: 06-05-2024
SCALE: 1" = 200'

NORTH

QMS 24-154

UNITED STATES POSTAL SERVICE®

Certificate of Bulk Mailing — Domestic

Fee for Certificate

Up to 1,000 pieces (1 certificate for total number)

For each additional 1,000 pieces, or fraction thereof

Duplicate Copy ☐

Use Current Price List (Notice 123)

Postage: Mailers must affix meter, PC Postage®, or (uncanceled) postage stamps here in payment of total fee due.

Acceptance employee must cancel postage affixed (by round-date) at the time of mailing.

If payment of total fee due is being paid by Permit Imprint, include the *PostalOne!* Transaction Number here: _____

Number of Identical Weight Pieces	Class of Mail	Postage for Each Mailpiece Paid	Number of Pieces to the Pound
874	First Class	☐ Verified	46

Total Number of Pounds	Total Postage Paid for Mailpieces	Fee Paid
19.45	$594.32	$10.90

Mailed For	Mailed By
1640 5th St. 24-154	Quality Mapping Service

Postmaster's Certification

It is hereby certified that the number of mailpieces presented and the associated postage and fee were verified. This certificate does not provide evidence that a piece was mailed to a particular address.

(Postmaster or Designee)

1640 5th Street Project

Virtual Community Meeting

July 8, 2024

6:00 PM – 8:00 PM (scheduled) 6:05 PM-6:19 PM (duration)

A. Noticing

A postcard Notice of Community meeting was made 14 days prior to the meeting via USPS to owners and occupants within a 750-foot radius of the project site. A copy of the postcard notification is attached.

The Notice of Community Meeting with the meeting Zoom link appeared on the on-site signage, as well as on the home page of the project website: 1640fifth.com/. An email link was also provided on the website for meeting RSVPs and requests for more information.

B. Attendees

Project Team

1. Justin Cua, Lincoln Property Company (applicant)
2. Drew Stelling, Lincoln Property Company (applicant)
3. Sophia Benamar Lincoln Property Company (applicant)
4. Stephen Lindgren, Lincoln Property Company (applicant)
5. Jonathan Watts, KFA (architect)
6. Tricia Hamachai. KFA (architect)
7. Azi Sadrieh, KFA (architect)
8. Michael Rocque, Rand Paster & Nelson (land use consultant)
9. Vicente Arellano, Rand Paster & Nelson (land use consultant)

Members of the Public (by screen names)

[None in attendance]

C. Presentation

Michael Rocque called the meeting to order at 6:05 and described the meeting agenda and ways the participants can have their questions and comments addressed.

Justin Cua introduced himself and provided a brief overview of the Project, and introduced Jonathan Watts, KFA Architects.

Jonathan Watts provided a verbal description of the project, accompanied by visuals consisting of site location, renderings, site plan, floor plans, parking, circulation, design elements, outdoor spaces, design, ground floor landscaping, and anticipated amenities, such as a co-working space, pool and community room.

Michael Rocque ended the meeting and provided additional information to the public on ways to still provide comments through the project email and website and that the presentation will be uploaded to the website for viewing.

D. Question and Answer Period

The live Q&A started after the presentation. No members of the public joined.

E. Summary of Comments and responses

No comments were received during the meeting.

F. <u>Zoom Chat</u>

No chat comments were received during the meeting.

G. Notification of Community Meeting

Insert copy of notice here

City of Santa Monica

SANTA MONICA RENT CONTROL BOARD
1685 Main Street, Room 202, Santa Monica, CA 90401
· santamonica.gov/rentcontrol
· rentcontrol@santamonica.gov
· (310) 458-8751

RCB # 9402

RECEIVED
7/18/2024
SANTA MONICA RENT CONTROL

RENT CONTROL STATUS FORM

This form must be filed with the Planning Department or Building & Safety Department before a permit application will be accepted. It does NOT constitute Rent Control Board approval for the permit.

Property Address: 1640 5th St APN: 4290-011-017

Owner or Applicant: 1640 5th Street LLC-Lincoln Property Company

Mailing Address: 1262 Palmetto Street Suite 527 Los Angeles, CA 90013

Current Use of Property: Commercial Office

Type of Application: Administrative Approval

Rent Control Status

☑ **Controlled:** # of controlled units: _____

Units subject to Rent Control Law: Building or demolition permits will not be issued until the units are withdrawn, exempted or removed from being subject to the Rent Control Law and/or issuance of permits is approved by the Rent Control Agency.

Pending Applications: No ☐ Yes ☐ Date Filed: _____

Ellis ☐ Exemption (type): _____ Removal _____

☑ **Exempt:**

Ellis ☐ Effective Date: _____ # of Units Withdrawn: _____

Exemption (type): _____ Effective Date: _____

If owner-occupied exemption, owner name: _____
Permits will only be issued in this name.

SFD ☐ Declaration Date: _____ Board Decision Date: _____

Removal Granted _____ Type: _____ Date: _____

Conditions of Removal: _____

Other: Commercial Property - No apparent residential rental history

RCB Staff Signature: Micah Michalski Date: 7/18/2024