Center Street Commerce Building

Health Risk Assessment

June 2016 (13432)

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June 2016

City of Riverside

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1.1 Project Description

The project includes the construction of a 308,000-square-foot warehouse on 15.63 acres. The warehouse includes 110,591 square feet of landscaping, the potential for up to 282 parking stalls, and 47 loading docks. Diesel particulate matter emissions will occur from truck movement along proposed drive aisles, truck movement along local roadways, and from truck idling at loading/unloading docks. The project is located south of Center Street and north of Placentia Lane in the City of Riverside, California, Universal Transverse Mercator coordinates Zone 11 N, 467247 Easting, 3764194 Northing, World Geodetic System 1984.

1.2 Risk Assessment

Discrete and grid receptor cancer risks are detailed in the AERMOD and HARP-RAST output files included in the appendix of this report. No thresholds for cancer or non-cancer risk will be exceeded by the project. The results of the study are summarized below:

Receptor (Exposure Time)	Exposure Level	Threshold	Potentially Significant?
Resident (30 Years) Cancer Risk	0.000002870	0.00001	No
Worker (25 Years) Cancer Risk	0.000001090	0.00001	No
Community Level (70 Years) Cancer Risk	0.002500000	0.50000	No
Non-Cancer Hazard index	0.007120000	1.00000	No

This health risk assessment includes operations-related emissions estimates of diesel particulate matter from the proposed Center Street Commerce Building. Analysis of the emission projections was conducted by MIG environmental specialists to provide information to a Lead Agency (as defined in the California Environmental Quality Act (CEQA)) in evaluating the project and making a determination of significance. The project includes the construction of a 308,000-square-foot warehouse on 15.63 acres located south of Center Street and north of Placentia Lane in the City of Riverside, California. The project includes 110,591 square feet of landscaping, the potential for up to 282 parking stalls, and 47 loading docks.

This health risk assessment was prepared using guidance found in the South Coast Air Quality Management District (SCAQMD) *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (SCAQMD, 2003) and the state Office of Environmental Health Hazard Assessment (OEHHA) *2015 Guidance Manual for the Preparation of Health Risk Assessments* (OEHHA, 2015).

The assessment was further informed by the SCAQMD *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics Hot Spots Information and Assessment Act* (SCAQMD, 2015), although it should be noted that the project at this time is not subject to the requirements of the Hot Spots Act and it is not known at this time if any future tenant will be subject to assessment and possible notification requirements pursuant to the Hot Spots Act. Modeling of diesel particulate matter emissions and subsequent health risk evaluation was facilitated through us of the following computer software:

- EMFAC2014
- BPIPPRM (DATED 04274)
- AERMOD v 15181
- HARP2-RAST (HARPCalc v 16088)

This report has been prepared for use by the Lead Agency to assess potential project-related impacts resulting from exhaust emissions containing diesel particulate matter in compliance with the State CEQA Statutes and Guidelines, particularly with respect to the sensitive receptors issues identified in Appendix G of the State CEQA Guidelines. The report preparers do not make or record any determinations of significance in this report. Such determinations are required to be made solely in the purview of the Lead Agency, through independent judgement, pursuant to CEQA.

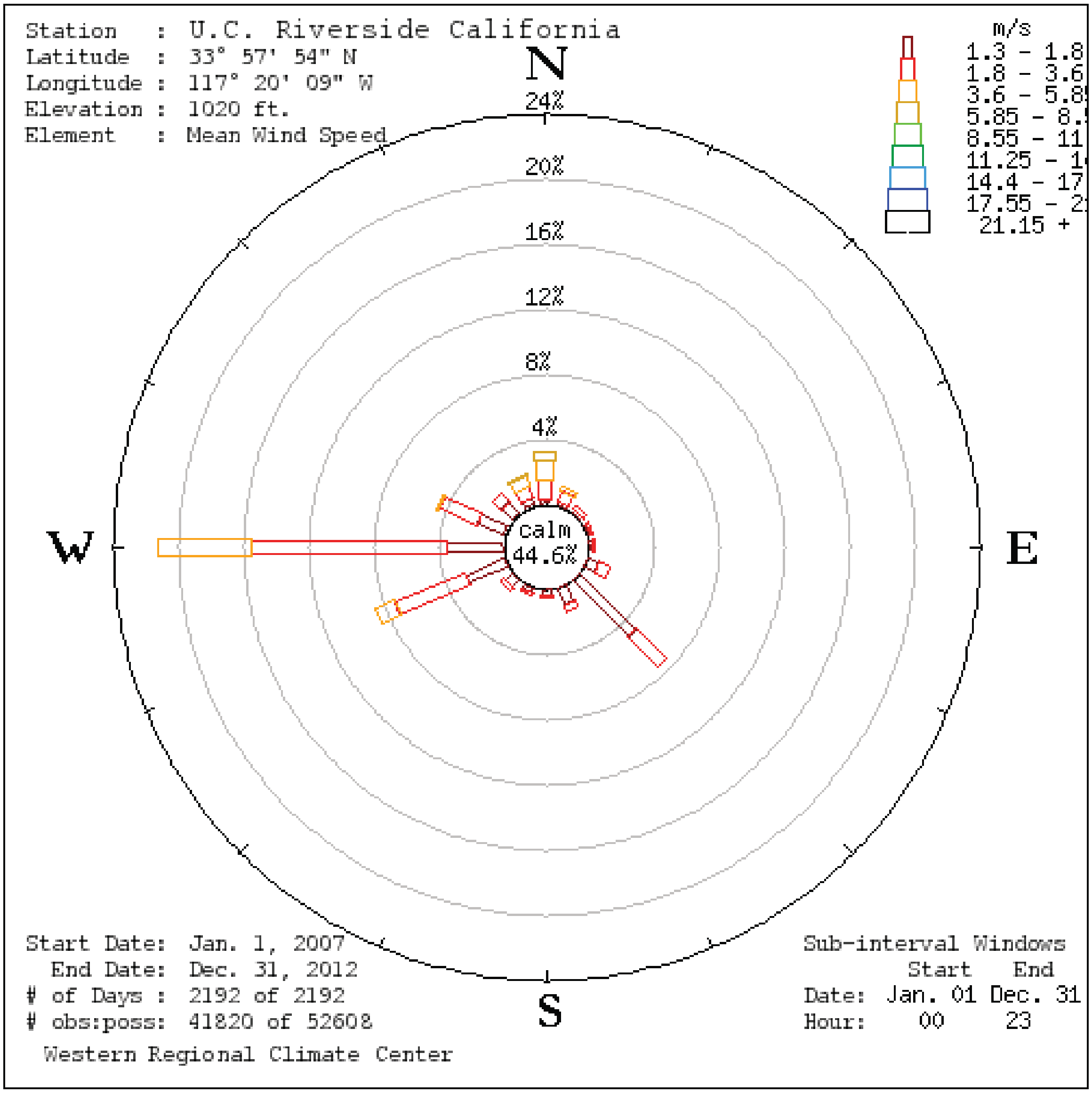
This report was prepared under the direction of Christopher Brown (Director of Environmental Services) with assistance provided by Cameron Hile (Assistant Analyst) of MIG under contract to Transition Properties, LP.

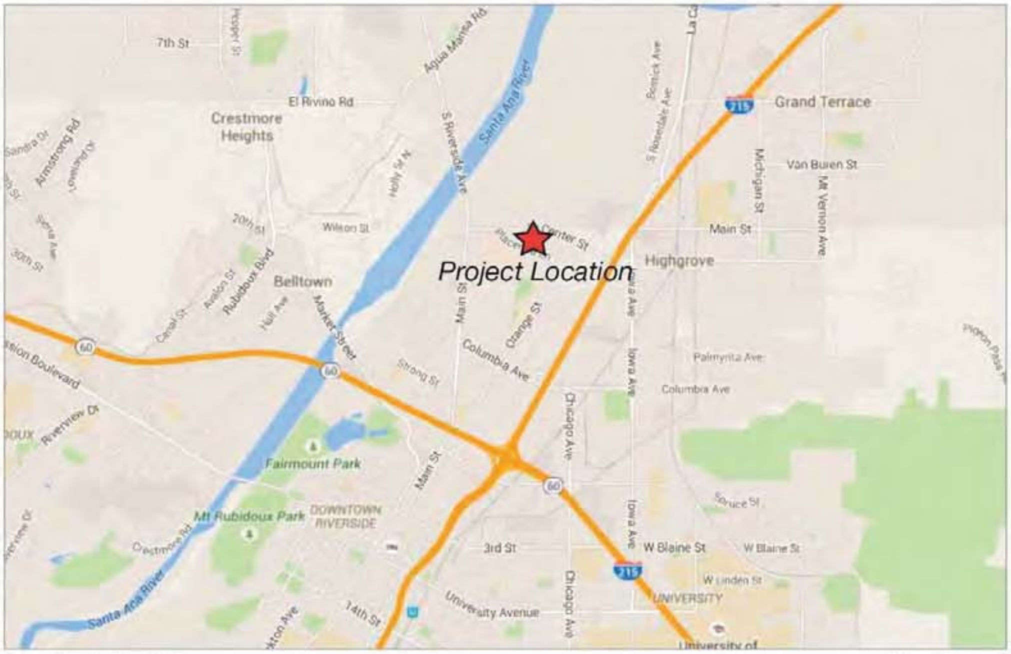
Christopher Brown
Director of Environmental Services

Cameron Hile
Assistant Analyst

The project is located in the City of Riverside. The City of Riverside and the broader Inland Empire are defined by a semi-arid, Mediterranean climate with mild winters and warm summers. Annual rainfall averages 9.86 inches with the rainy season occurring during the winter (WRCC, 2009). The coolest month of the year is December with an average monthly low of 41.3° Fahrenheit (F). The warmest month is August with an average monthly high of 94.4° F. Riverside is located at an elevation of approximately 700 feet to 1,400 feet above mean sea level (AMSL) (USGS, 1942). The project site is located at an approximate elevation of 830 AMSL. Wind generally blows from the west (WRCC, 2002).

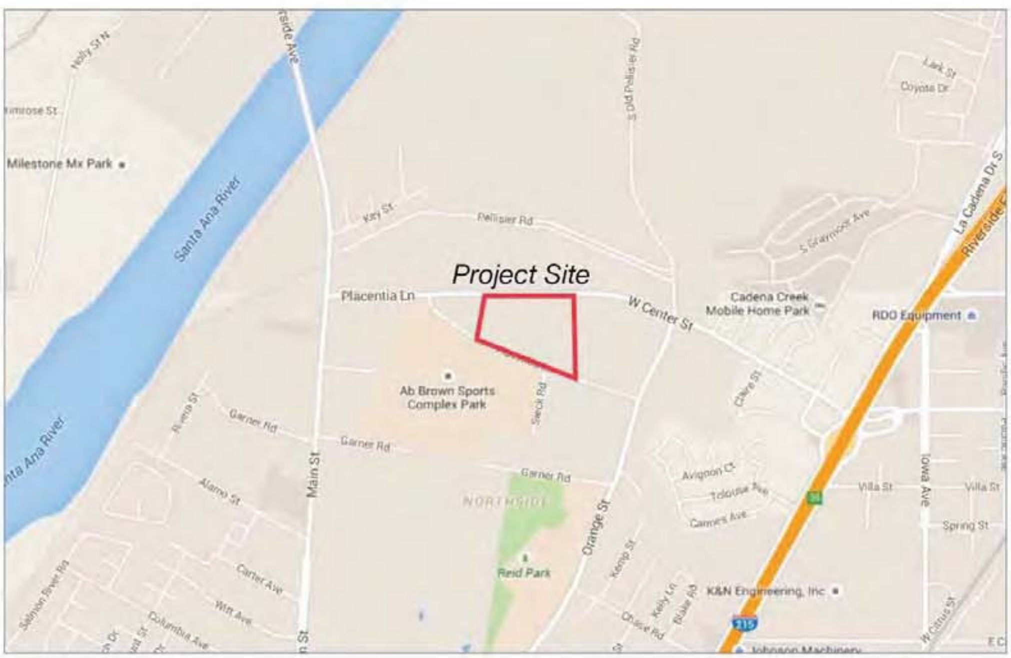
Figure 1
Riverside Wind Rose





Source: Google Maps, 2015

Regional



Source: Google Maps, 2015

Vicinity

Not to Scale

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Exhibit 1 Regional and Vicinity Map

MIG Hogle-Ireland

Center Street Commerce Building Project
6550 Center Street, Riverside, California

4.1 Air Toxics

State requirements specifically address air toxics issues through Assembly Bill (AB) 1807 (known as the Tanner Bill) that established the State air toxics program and the Air Toxics Hot Spots Information and Assessment Act (AB 2588). The air quality regulations developed from these bills have been modified recently to incorporate the Federal regulations associated with the Federal Clean Air Act Amendments of 1990. The Air Toxics Hot Spots Information and Assessment Act (Hot Spots Act) was enacted in September 1987. Under this bill, stationary sources of emissions are required to report the types and quantities of certain substances that their facilities routinely release into the air.

The SCAQMD is required to prepare an annual report on the status and forecast of air toxic *hotspots* pursuant to Section 44363 of the California Health and Safety Code. SCAQMD monitors facilities that are not exempt from the fee and reporting requirements of AB 2588.

Some facilities are covered under *umbrella* permits that address industry-wide categories. SCAQMD has issued general permits for the following seven activities:

- Retail gasoline dispensing
- Perchloroethylene dry cleaning
- Auto body shops
- Fiberglass molding
- Printing
- Metal plating
- Wood stripping and finishing

Emissions inventories and risk assessment guidelines have been prepared for the seven industry-wide categories. Approximately 1,400 auto body shops, 3,200 gasoline stations, and 1,400 perchloroethylene dry cleaners within the District are covered under these umbrella permits.

Depending on the severity of the facilities' toxic air contaminant (TAC) releases, SCAQMD requires either public notification of toxic hot spots or preparation of a risk reduction plan, as identified in Table 1 (AB2588 Action Release Levels).

Table 1 (AB2588 Action Release Levels)

	Cancer Risk (per million)	Acute Risk	Chronic Risk
Action Risk Level	>= 25	>= 3.0	>= 3.0
Public Notification Level	>= 10	>= 1.0	>= 1.0
Exempt	<1	<0.1	<0.1

It is unknown at this time if future tenants will include use of stationary emergency or prime compression ignition internal combustion engines, portable diesel engines, or other equipment subject to AB 2588 considering it is a speculative building without a known tenant.

4.2 Risk Assessment Guidelines

In order to perform health risk assessments (HRAs) under the Air Toxics Hot Spots Information and Assessment Act of 1987, OEHHA promulgates the *Guidance Manual for Preparation of Health Risk Assessments* (OEHHA, 2015) that includes the algorithms, exposure variants, cancer and non-cancer health values, and air modeling protocols to prepare HRAs. Although these guidelines are designed for point-source, facility-specific emissions, AQMD has decided to recommend use of these guidelines for land use projects that are subject to CEQA and may emit DPM in amounts that could result in significant impacts to the environment. The latest version of these guidelines were approved in February 2015. The guidelines included a number of updates including the recommendation to calculate cancer risk by accounting for *Early Life Exposure* adjustments to account for the presumed sensitivity to carcinogens and differences in intake rates. Using the point-estimate approach, cancer risk at residential receptors is calculated with consideration of receptor dose, toxic potency, age sensitively, exposure duration, average risk, and the amount of time the receptor is home for the age the age groups ranging from third-trimester to 9 years, to thirty years, and to seventy years. Cancer risk at non-residential receptors accounts for similar criteria for a 25-year assumed exposure duration.

It should be noted that early-life exposure was recognized by the EPA as a necessity for mutagenic carcinogens. OEHHA has discussed this fact in their support documentation and include 3 (of 23) non-mutagenic carcinogens (DDT, DES, and TCDD) in their meta-analysis of multi-stage life cancer exposure; however, the ultimate conclusion was that the available data and modes of action were not sufficient in supporting adjustments to non-mutagenic carcinogens. Mutagens cause changes to genetic material (DNA) that increase the frequency of mutations that produce carcinogenic effects. DPM is not carcinogenic through a mutagenic mode of action. The EPA meta-analysis included several hundred studies for 67 chemicals, compared to OEHHA's "subset" of 145 studies for 23 carcinogens. As mentioned, the Hotspots program applies to facilities and the guidance manual specifically states that the document should not to be applied to roadways because the program only addresses stationary sources. As the AQMD continues to incorporate OEHHA's new Guidelines into its programs, it should be further noted that mobile-source toxics have yet to be officially addressed in the documentation, although AQMD staff is recommending it be used as such. The staff presentations include mention of possible application of the Guidelines to DPM emissions or mobile-source toxics; however, analysis of the applicability of the Guidelines to mobile-source toxics or the economic impact that could result have not been analyzed or released to the public. Rule modifications have not been presented that would apply the Guidelines to mobile-source toxics and the AQMD's primary documentation for assessing DPM emissions (http://www.aqmd.gov/docs/default-source/ceqa/handbook/mobile-source-toxics-analysis.doc?sfvrsn=2) has not been updated to incorporate the changes reflected in the guidelines.

4.2.1 Truck and Bus Regulation

In December 2008, the California Air Resources Board (ARB) approved the *Truck and Bus Regulations* as part of their rulemaking authority and adopted in Title 13 (Motor Vehicles) of the California Code of Regulations (CCR). These regulations are applicable to all diesel-fueled trucks and buses with a gross vehicle weight rating (GVWR) of 14,000 pounds or more (Class 4 or greater) that are privately or federally owned and for privately and publically owned school buses (ARB, 2011). These regulations are designed to reduce emissions of particulate matter and oxides of nitrogen from existing diesel vehicles operating in California. Compliance scheduling is phased for light and heavy vehicles depending on the age of the vehicle engine. Full compliance across vehicle ratings is set in 2023. Regulations affect the following areas:

- Auxiliary Power Units
- Port and Rail Yard Trucks
- Emissions Control Label Inspection
- Greenhouse Gas Emissions Reductions
- Heavy-Duty Diesel Vehicle Inspection
- Idling Reduction
- Periodic Smoke Inspection
- Public and Utility Agencies
- Public Transit Agencies
- School Bus Fleets
- Solid Waste Collection Vehicles
- Transport Refrigeration Units

Starting in 2015, lighter trucks (between 14,000 and 26,000 gross vehicle weight rating (GVWR)) will be required to replace the vehicle and/or engine if the engine manufacture date is from 1995 or earlier. Newer engines will be required to be replaced on a graduated scale until 2023 when all engines will be required to meet model year 2010 emissions or equivalent. Heavier truck operators (greater than 26,000 GVWR) have options for meeting the regulation requirements through 2023. Vehicles with engine years earlier than 1994 and 1995 will be required to be replaced in 2015 and 2016, respectively. Operators with engine years between 1996 and 2006 have the option to install a particulate filter before being required to replace the engine towards the compliance deadline. Later engines are considered compliant in 2023 when they demonstrate 2010 emissions levels or equivalent.

Idling restrictions were established in 2008 and apply to vehicles greater than 10,000 GVWR (Class 3 or greater). These restrictions limit idling to five minutes or less before manual or automatic shutdown must be initiated at a location (facility). Engine models manufactured in 2008 and thereafter are required to be equipped with a non-programmable engine shutdown mechanism that automatically shuts off the engine after five minutes of idling.

The following discussion summarizes the *Required Source Information* identified in Table 1 of the SCAQMD health risk assessment guidance.

5.1 Facility and Surroundings

5.1.1 Location

The project is located south of Center Street and north of Placentia Lane in the City of Riverside, California, Universal Transverse Mercator (UTM) coordinates Zone 11 N, 467247 Easting, 3764194 Northing, World Geodetic System (WGS) 1984 (see Exhibit 1, Regional Context and Vicinity Map).

5.1.2 Local Land Use

Some populations are more susceptible to the effects of air pollution than the population at large; these populations are defined as sensitive receptors. Sensitive receptors include children, the elderly, the sick, and the athletic. Land uses associated with sensitive receptors include residences, schools, playgrounds, childcare centers, athletic facilities, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. Sensitive receptors are located north, east, and south of the project. The AB Brown Sports Complex Park is located directly south of the project site. Residential uses are located north and west of the project site. Exhibit 2 (Radius Map) identifies existing development in the project vicinity based on recent assessor's parcel data.

5.1.3 Facility Plot Plan

The project includes the construction of a 308,000-square-foot building on 15.63 acres. Diesel particulate matter (DPM)emissions will occur from truck movement along proposed drive aisles , truck movement along local roadways, and from truck idling at loading/unloading docks.

5.1.4 Operating Schedule

The tenant for the proposed building is unknown at this time, thus, the operating schedule is assumed at 24 hours a day, 365 days a year, as a worst-case scenario. Note that this means there will be no opening or start of day delay that could result in vehicle queuing at this location.

5.2 Mobile Emissions Sources

5.2.1 Hazard Identification

The proposed project will result in the generation of heavy diesel truck traffic that has been identified as a gross-emitter of DPM (CARB, 2014). DPM was identified as a toxic air contaminant (TAC) because of its potential to cause cancer, premature deaths, and other health problems. DPM was identified as a toxic air contaminant (TAC) because of its potential to cause cancer, premature deaths, and other health problems. Health hazards associated with DPM are especially hazardous for children because their lungs are still developing, and the elderly who may have other serious health problems. Health risks from DPM occur exclusively through the inhalation pathway.

5.2.2 Hourly Emissions Rate

Table 2 (Trip Generation) **Error! Reference source not found.**summarizes the estimated average daily traffic (ADT) volumes generated by the project based on the Institute of Transportation Engineers 9th edition *Trip Generation Manual* (ITE, 2012) at the request of the City of Riverside Engineering Department . It should be noted that while this building was proposed as a high-cube warehouse and is anticipated to accommodate future tenants for that purpose, the City felt it appropriate to analyze a "worst-case" scenario by modeling trip generation as a manufacturing uses, thus, the analysis found herein is conservative in that trips generation has been inflated by 232 percent. The proposed project was modeled with an estimated daily trip rate of 3.82 per 1,000 square feet. The survey and analytical data found in the City of Fontana *Truck Trip Generation Study* (Neustaedter, Neustaedter, Garnatero, & Fuller, 2003) was used in the project *Traaffic Impact Analysis* (Kunzman, Ballard, & Crawford, 2016). Passenger vehicles were modeled as 74.45 percent of the fleet mix, light-duty trucks as 8.4 percent of the fleet mix, medium-heavy duty trucks as 4.6 percent of the truck trips, and heavy-heavy duty truck trips as 25.6 percent of the fleet mix. For this analysis, it is assumed that the building will operate 24 hours a day.

Table 2 (Trip Generation)

Vehicle Type	Average Daily Trips	Average Hourly Trips	Average Hourly Trucks
Passenger	729.5	30.4	--
Light-Duty Trucks	70.6	2.9	--
Medium-Heavy Duty Trucks	105.9	4.4	2.2
Heavy-Heavy Duty Trucks	270.6	11.3	5.65
Source: Kunzman Associates 2015			

Running and idling emissions rates for diesel particulate matter were modeled using EMFAC2014 (see Appendix A). EMFAC2014 was run for calendar year 2018, based on a 2018 opening year for the proposed project. The EMFAC emissions database combines aggregate emissions for multiple model years based on the project opening year. If the construction and operation of the proposed project were to be delayed, the emissions factors included in this report would be considered a worst-case scenario because emissions rates improve as newer model years become available and older vehicles are retired. EMFAC2014 was executed for ten miles per hour (mph) for medium-heavy duty (MHD) and heavy-heavy duty (HHD) trucks using an aggregate of model years to generate the emissions factors for on-site truck movement. Idling emissions for MHD (labeled T6 in the EMFAC emissions database) and HHD (labeled T7 in the EMFAC emissions database) trucks were also modeled for calendar year 2018. Note that State law limits idling to five minutes *per location* without exception for entry and exits; therefore, idling emissions were modeled using EMFAC2014 and adjusted to account for the five-minute idling limitation.

EMFAC2014 was used for on-road emissions factors at 25 MPH on Center Street. Emissions factors were converted into units of grams per second per square meter of area for drive aisle movement and on-road movement for input to the American Meteorological Society/Environmental Protection Agency Regulatory Model (EPA, 2004) using the formula provided in Equation 1 (Running Exhaust Emissions).

Equation 1 (Running Exhaust Emissions)

$$E_R = \left(\left[\left\{EMFAC_{g/mph} \times T \times D\right\} \div 60\right] \div 60\right) \div A$$

where,

E = Emissions (grams per second per square meter)
R = Emissions Type: Running Exhaust
EMFAC = EMFAC2014 Output (grams per hour)
g = grams
mph = mile per hour
T = Trucks
D = Travel Distance (two-way) (miles)
A = Area (square meters)

Equation 2 (Idling Exhaust Emissions)

$$E_I = [\{(EMFAC_{g/h} \times T) \div 60\} \div 60] \times L_I$$

where,

E = Emissions (grams per second per square meter)
I = Emissions Type: Idling Exhaust
EMFAC = EMFAC2014 Output (grams per hour)
g = grams
h = hour
T = Trucks
L = Limitation Coefficient (0.08)

Idling emissions are presented in grams per second and were calculated using Equation 2 (Idling Exhaust Emissions). Trucks will idle for a maximum of five total minutes. Trip distribution is based on the traffic impact analysis prepared by Kunzman Associates (see Appendix B, Traffic Impact analysis). Table 3 ((Emissions Factors) summarizes the emissions factors for each area of the on- and off-site area.

Table 3 (Emissions Factors)

Source	Emissions Factor*
Building	
Truck Bay (DOC1)	0.000059122861
Truck Bay (DOC2)	0.000109799599
Drive Aisle (AIS1)	0.000000003175
Drive Aisle (AIS2)	0.000000008525
Streets	
Center Street (CEN1)	0.000000000881
Center Street (CEN2)	0.000000001028
Center Street (CEN3)	0.000000003824
* grams per second per square meters (g/s/m^2) for vehicle movement and grams per second (g/s) for idling emissions	

5.2.3 Source Location

On-site emissions sources are identified in Exhibit 3 (On-Site Emissions) and Exhibit 4 (Off-Site Emissions). Table 4 (Source Locations) provides the Universal Transverse Mercator (UTM) coordinates for the southwest corner of each area source. Although SCAQMD recommends emissions be modeled as area or volume sources, the idling sources were input a point source from the center of the docking bay to account for building downwash.

Table 4 (Source Locations)

Source	UTM (Zone 11N)	
Building	*Easting*	*Northing*
Truck Bay (DOC1)	467186	3764204
Truck Bay (DOC2)	467308	3764204
Drive Aisle (AIS1)	467091	3764194
Drive Aisle (AIS2)	467247	3764194
Streets		
Center Street (CEN1)	466678	3764350
Center Street (CEN2)	467099	3764351
Center Street (CEN3)	467383	3464351

5.2.4 Source Treatment

The source height for all emissions sources is 14 feet (4.2 meters), the approximate height of a truck exhaust. On- and off-site vehicle movement was modeled as AREAPOLY sources using the AERMOD command for irregular polygons and idling emissions were modeled as POINT sources. Idling exhaust release characteristics were assumed with an exit temperature of 366.48° Kelvin, exit velocity of 50 meters per second (m/s), and an exhaust diameter of 0.1016 meters.

5.3 Area Dimensions

All off-site vehicle movement emissions sources are modeled as a polygon area (AREAPOLY) source in AERMOD. On-site vehicle movement was modeled as also modeled as irregular polygon area sources to account for truck movement into trailer parking, on drive aisles, and into docking bays. Table 5 ((Area Dimensions) identifies the dimensions used in the model.

Table 5 (Area Dimensions)

Source	Length (m)	Width (m)	Travel Distance (miles)*
Building			
Drive Aisle (AIS1)	--	--	0.18 (0.36)
Drive Aisle (AIS2)	--	--	0.17 (0.34)
Streets			
Center Street (CEN1)	--	--	0.26 (0.52)
Center Street (CEN2)	--	--	0.18 (0.36)
Center Street (CEN3)	--	--	0.23 (0.46)
( ) Length of area source doubled to account for total trip length -- Irregular Area Source			

5.4 Air Dispersion Modeling

Cancer risk and non-cancer health risks to sensitive receptors within one-quarter mile of the project site were estimated using the EPA AERMOD model and guidance provided by SCAQMD in the *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Emissions* white paper (SCAQMD, 2003). AERMOD is the EPA regulatory dispersion model that provides multiple source Gaussian plume models with maximum ground-level concentrations for point, area, flare, and volume sources. AERMOD replaced the Industrial Source Complex (ISC3) model in 2005 as the EPA regulatory model. The composite emissions factor for idling trucks and on-site truck movement was estimated using Emissions Factor 2014 (EMFAC2014). EMFAC2014 was developed by ARB to calculate emissions inventories for mobile vehicles operating in California based on raw vehicle data. The dimensions of the proposed buildings were modeled using Building Profile Input Program Prime (BPIPPRM) (see Appendix C).

5.4.1 Meteorological Data

Meteorological data was prepared by SCAQMD for the Riverside station using AERMET version 12345 (available at http://www.aqmd.gov/home/library/air-quality-data-studies/meteorological-data/aermod-table-1). Surface characteristics for the Riverside station include a surface albedo of 0.19, surface roughness of 0.314 meters, and a Bowen ratio of 1.0. The station is located at UTM Zone 11 North, 461.64 kilometers (km) easting and 33762.10 km northing at an elevation of 250 meters above sea level.

5.4.2 Discrete Receptors

Thirty-five discrete receptors within one-quarter mile of the project site were input into the model. Twenty-four of the discrete receptors were identified as residential uses or potential residential uses and thus have the potential to house sensitive receptors. The remainder were identified as commercial or industrial uses and although not considered sensitive receptors they are included in the worker cancer and health risk elevation provided herein.

5.4.3 Receptor Grid

Emissions were modeled in a 1,000-meter receptor grid network at 100 meter transects around the project site. This resulted in a 100-point grid identifying concentrations around the project site at an approximately one-quarter mile buffer around the project site.

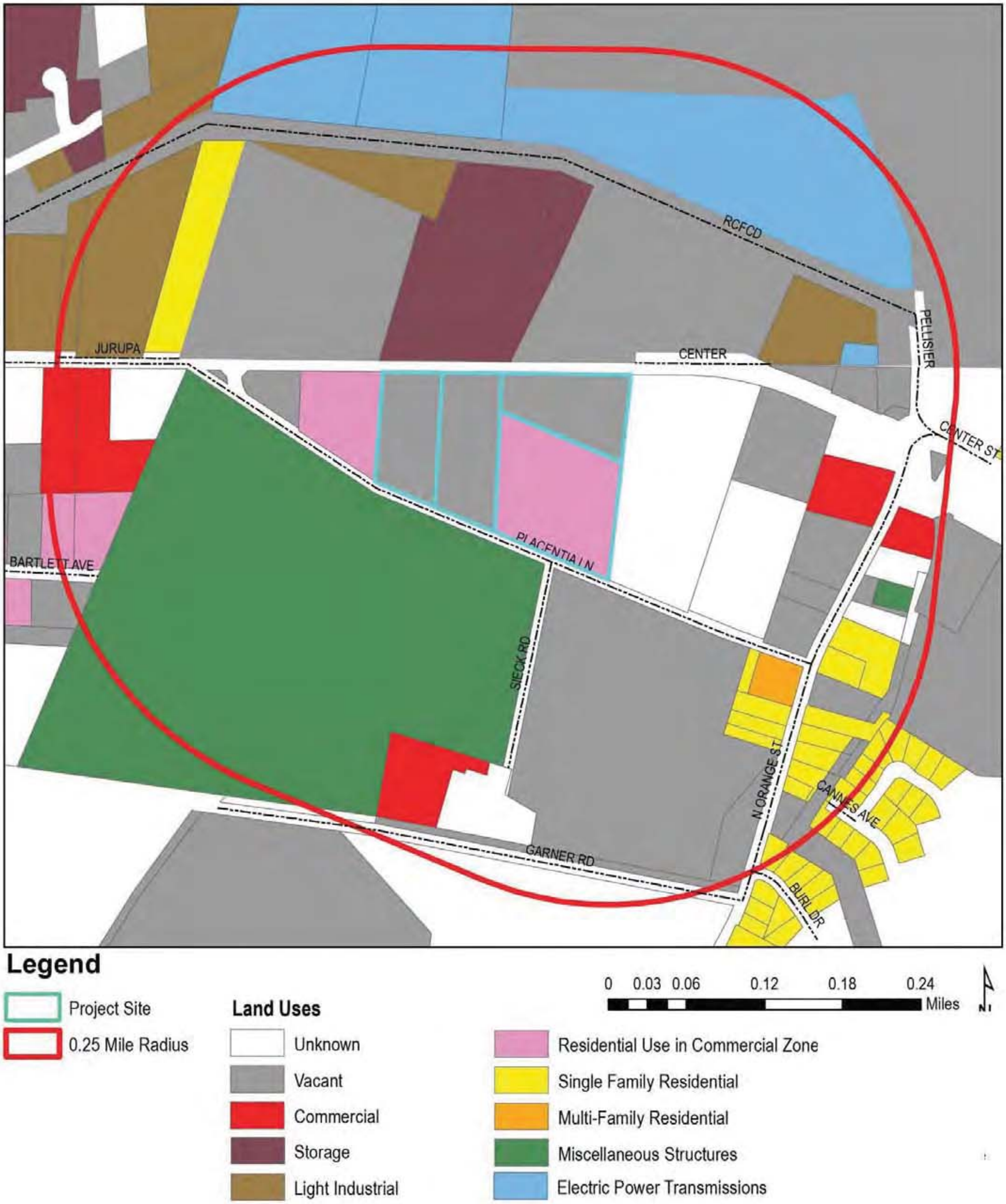

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Exhibit 2 Radius Map

Center Street Commerce Building Project
6550 Center Street, Riverside, California

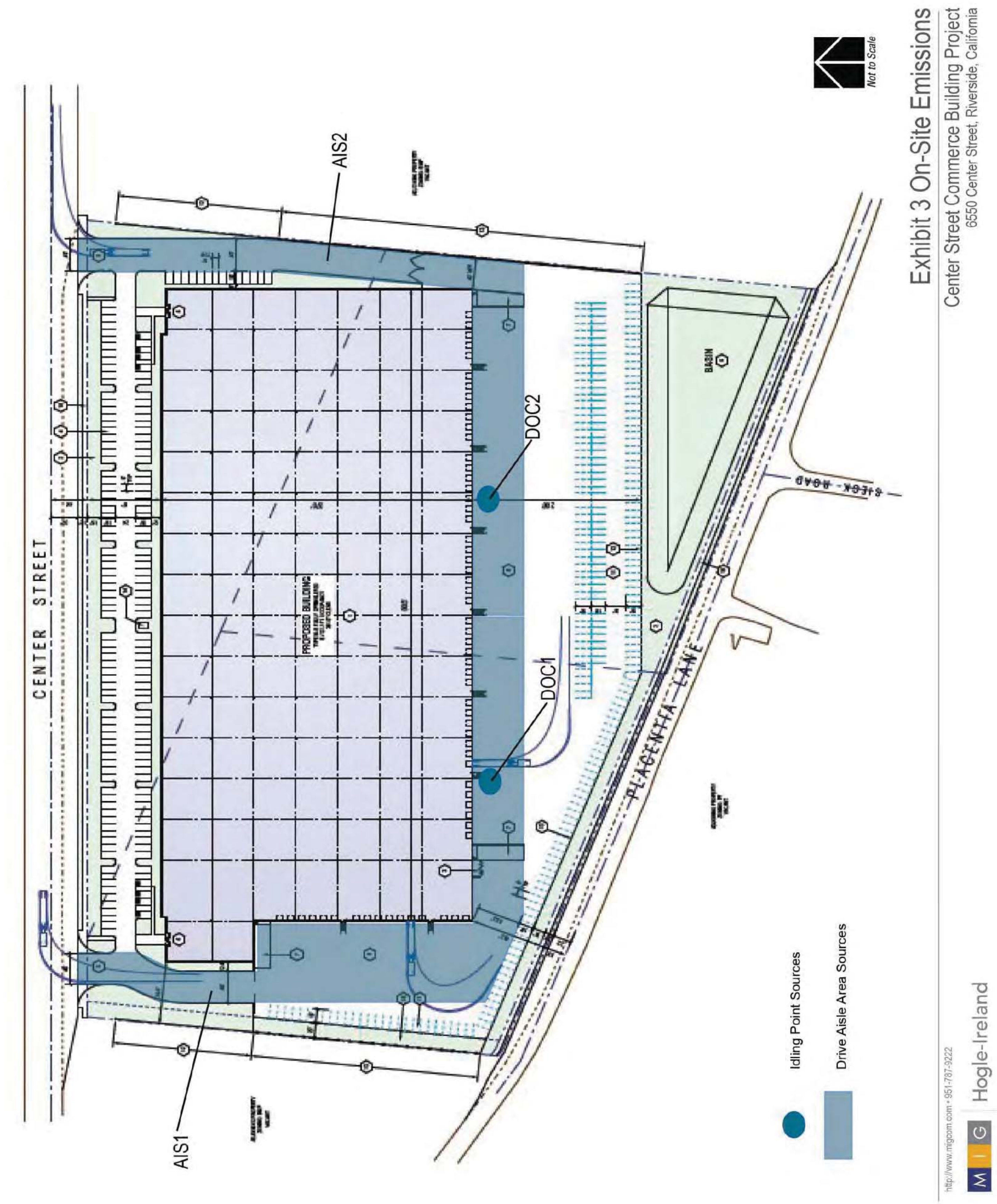
Exhibit 3 On-Site Emissions
Center Street Commerce Building Project
6550 Center Street, Riverside, California
Not to Scale
AIS2
AIS1
DOC2
DOC1
CENTER STREET
PLACENTIA LANE
PROPOSED BUILDING
BASIN
Idling Point Sources
Drive Aisle Area Sources
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Not to Scale

Project Site
Off-Site Emission Sources

Exhibit 4 Off-Site Emissions

Center Street Commerce Building Project
6550 Center Street, Riverside, California

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Cancer risk and non-cancer health risks to receptors within one-quarter mile of on-site sources were estimated using the EPA AERMOD model and guidance provided by SCAQMD in the *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Emissions* white paper and the *2015 Guidance Manual for the Preparation of Health Risk Assessment*.

6.1 Cancer Risk

SCAQMD has established thresholds for emissions of toxic air contaminants. Toxic air emissions from a project are considered potentially significant if maximum incremental cancer risk (MICR) is greater than ten persons in 1,000,000 (1E-05). Cancer risk is determined by calculating the combinatory effects of the cancer potency factor (CPF) when inhaling the toxic, the daily inhalation dose, the age group the receptor is cohort to, the duration of exposure over a lifetime (25, 30, or 70 years depending on the analysis), and the amount of time spent at the location of exposure (see Appendix C). Cancer risk was assessed for three specific locations within one-quarter mile of the proposed project, as recommended by OEHHA: the maximum exposed individual resident (MEIR) over a 30-year exposure duration that characterizes the maximum residency tendency in California, the maximum exposed individual worker (MEIW) over a 25-year exposure duration characterizing the maximum job tenure tendency in California, and the point of maximum impact (PMI) irrespective of receptor type. Cancer risk for exposed residential and worker receptors was calculated using Equation 3 (Residential Cancer Risk) and Equation 4 ((Worker Cancer Risk). Residential risk calculations account for presumed sensitivity to carcinogens and differences in intake rates for the third-trimester to birth, birth to two-years, two-years to nine-years, two-years to nine-years, two-years to 16-years, 16-year to 30-years, and 16-years to 70 years' age bins.

Equation 3 (Residential Cancer Risk)

$$RISK_{INH.RES} = DOSE_{AIR.RES} \times CPF \times ASF \times \frac{ED}{AT} \times FAH$$

Equation 4 (Worker Cancer Risk)

$$RISK_{INH.WORK} = DOSE_{AIR.WORK} \times CPF \times ASF \times \frac{ED}{AT}$$

Where:

$DOSE_{AIR}$	=	Daily Inhalation Dose (mg/kg-day)
CPF	=	Cancer Potency Factor for Inhalants (mg/kg-day). CPF is expressed as the 95th percent upper confidence limit of the slope of the dose response curve under continuous lifetime exposure conditions. The CPF for diesel exhaust is 1.1 mg/kg-day.
ASF	=	Age Sensitivity Factor (ASF. ASF is a coefficient that inflates overall cancer risk for younger receptors based on data that suggests younger animals may be more susceptible when exposed to carcinogens. The recommended coefficients are 10 for the third-trimester to birth and two-year age bins, three for the two-year to nine-year and 16-year age bins, and one for receptors over 16 years of age.
ED	=	Exposure Duration (years). Exposure duration characterizes the length of residency or employment of the receptor. As discussed above, MEIR over a 30-year exposure duration is used to characterize the upper limit of residency in California while residential 9-year and 70-year exposure durations and included to characterize average residency tendency and lifetime exposure scenarios, respectively. MEIW over a 25-year exposure is used to characterize the upper limit of job tenure in California.
AT	=	Averaging Time (years). A 70-year (lifetime) averaging time is used to characterize to total risk as a factor of average risk over a typical lifespan.

FAH = Fraction at Home. FAH is the percentage of time the receptor is physically at the receptor location. The recommended percentages are 85 percent for the third-trimester to birth and two-year age bins, 72 percent for the two-year to nine-year and 16-year age bins, and 73 for receptors over 16 years of age.

Equation 5 (Residential Dose)

$$DOSE_{AIR.RES} = C_{AIr} \times \frac{BR}{BW} \times A \times EF \times 10^{-6}$$

Equation 6 (Worker Dose)

$$DOSE_{AIR.WORK} = C_{AIr} \times WAF \times \frac{BR}{BW} \times A \times EF \times 10^{-6}$$

Where:

C_{AIR} = Concentration of TAC in air (μg/m^3). Concentration of toxic in micrograms per one cubic meter of air. The AERMOD program is used in the study to determine concentrations of diesel particulate matter at surrounding discrete and grid receptor points.

WAF = Worker Air Concentration Adjustment Factor. The WAF is a coefficient designed to characterize the overlap of offsite worker schedules with the operations of a land use under study.

$\frac{BR}{BW}$ = *Breathing Rate ÷ Body Weight (L*/kg/day). Daily breathing rate normalized to body weight. The 95th percentile breathing rate to body weight ratios are used in this study with a recommended 361 L/kg/day for the third-trimester to birth age bin, 1,090 L/kg/day for the birth to two-years age bin, 861 L/kg/day for the two-years to nine-years age bin, 745 for the two-years to 16-years age bin, 335 L/kg/day for the 16-years to 30-years age bin, and 290 L/kg/day for the 16-years to 70-years age bin.

A = *Inhalation Absorption Factor.* Is a coefficient that reflects the fraction of chemical absorbed in studies used in the development of CPF and Reference Exposure Levels (RELs). An absorption factor of one is recommended for all chemicals.

EF = *Exposure* Frequency. EF is the ratio of days in a year that a receptor is receiving the dose. The recommended EF is 0.96 characterizing an assumed 350 days a year that a residential receptor is home for some portion of the day.

Equation 7 (Worker Adjustment Factor)

$$WAF = \frac{H_{RES}}{H_{SOURCE}} \times \frac{D_{RES}}{D_{SOURCE}} \times DF$$

Where:

H_{RES} = *Residential Hours.* Daily Hours by that the Annual Average Residential Air Concentration is Calculated.

H_{SOURCE} = *Source Operational Hours.* For this study it was assumed that the facilities will operate 24 hours a day.

D_{RES} = *Residential Days.* Weekly Days by that the Annual Average Residential Air Concentration is Calculated.

D_{SOURCE} = *Weekly Operational Days of the Source.* For this study it was assumed that the facilities will operate seven days a week.

DF = *Discount Factor.* Coefficient for Partial Overlap of Work Schedule and Source Operations. No discount factor was applied in this study

Concentrations were modeled using AERMOD and then input into the Hot Spots and Reporting Program (HARP) Health Risk Assessment Standalone Tool (RAST) computer software to calculate cancer risk based on the methods and recommendations found in the HRA Guidelines. The results of the HARP evaluation of cancer risk for residential 9-years, 30 years, and 70 years, and worker 25-years exposure scenarios for grid receptors and discrete receptors are summarized in the following tables and detailed program results are included as Appendix D.

Table 6 (30 Year (Maximum) Residential Cancer Risk (Discrete Receptors))

Index	Easting	Northing	Concentration	Cancer Risk
6	467546	3763993	0.00421	2.87E-06
7	467561	3763987	0.00403	2.75E-06
18	467652	3764011	0.00365	2.49E-06
19	467658	3763981	0.00334	2.28E-06
9	467567	3763930	0.00325	2.22E-06
10	467569	3763901	0.00294	2.00E-06
15	467614	3763915	0.00294	2.00E-06
8	467565	3763885	0.0028	1.91E-06
16	467621	3763893	0.00272	1.85E-06
14	467613	3763872	0.00258	1.76E-06
13	467603	3763849	0.00243	1.66E-06
23	467702	3763877	0.00234	1.60E-06
12	467595	3763829	0.00232	1.58E-06
24	467721	3763881	0.0023	1.57E-06
22	467691	3763858	0.00226	1.54E-06
21	467680	3763839	0.00218	1.49E-06
20	467665	3763821	0.00211	1.44E-06
17	467635	3763787	0.002	1.36E-06
11	467575	3763756	0.00195	1.33E-06
3	466818	3764404	0.00156	1.06E-06

Index	Easting	Northing	Concentration	Cancer Risk
4	466906	3764000	0.00149	1.02E-06
5	467244	3763650	0.0013	8.86E-07
2	466724	3764152	0.00121	8.25E-07
1	466699	3764107	0.00107	7.30E-07

Table 7 (70 Years (Lifetime) Population-Wide Cancer Burden)

Index	Easting	Northing	Concentration	Cancer Risk
76	467291	3764194	0.03558	3.18E-05
86	467391	3764194	0.02631	2.35E-05
85	467391	3764294	0.02097	1.87E-05
66	467191	3764194	0.01852	1.66E-05
75	467291	3764294	0.00001	8.94E-06
77	467291	3764094	0.00934	8.35E-06
65	467191	3764294	0.00932	8.33E-06
87	467391	3764094	0.00895	8.00E-06
95	467491	3764294	0.00851	7.61E-06
96	467491	3764194	0.00826	7.38E-06
55	467091	3764294	0.00772	6.90E-06
15	467591	3764294	0.00759	6.78E-06
97	467491	3764094	0.00725	6.48E-06
56	467091	3764194	0.00679	6.07E-06
84	467391	3764394	0.00678	6.06E-06
67	467191	3764094	0.00064	5.72E-06
74	467291	3764394	0.00615	5.50E-06
94	467491	3764394	0.00061	5.45E-06
64	467191	3764394	0.00052	4.65E-06
16	467591	3764194	0.00517	4.62E-06
17	467591	3764094	0.00502	4.49E-06
98	467491	3763994	0.00447	3.99E-06
88	467391	3763994	0.00432	3.86E-06
78	467291	3763994	0.00423	3.78E-06
14	467591	3764394	0.00421	3.76E-06
54	467091	3764394	0.00396	3.54E-06
18	467591	3763994	0.00395	3.53E-06
57	467091	3764094	0.00338	3.02E-06
68	467191	3763994	0.00332	2.97E-06
45	466991	3764294	0.0033	2.95E-06
46	466991	3764194	0.00314	2.81E-06
99	467491	3763894	0.00302	2.70E-06
89	467391	3763894	0.00291	2.60E-06

Index	Easting	Northing	Concentration	Cancer Risk
19	467591	3763894	0.00282	2.52E-06
79	467291	3763894	0.00275	2.46E-06
44	466991	3764394	0.00272	2.43E-06
73	467291	3764494	0.00268	2.40E-06
83	467391	3764494	0.00255	2.28E-06
63	467191	3764494	0.00243	2.17E-06
47	466991	3764094	0.00237	2.12E-06
69	467191	3763894	0.00235	2.10E-06
58	467091	3763994	0.00231	2.06E-06
35	466891	3764294	0.00228	2.04E-06
93	467491	3764494	0.00228	2.04E-06
90	467391	3763794	0.00218	1.95E-06
20	467591	3763794	0.00212	1.89E-06
36	466891	3764194	0.00209	1.87E-06
13	467591	3764494	0.002	1.79E-06
80	467291	3763794	0.002	1.79E-06
53	467091	3764494	0.00199	1.78E-06
34	466891	3764394	0.00198	1.77E-06
59	467091	3763894	0.0018	1.61E-06
48	466991	3763994	0.00179	1.60E-06
70	467191	3763794	0.00177	1.58E-06
37	466891	3764094	0.00175	1.56E-06
25	466791	3764294	0.00174	1.56E-06
72	467291	3764594	0.00172	1.54E-06
43	466991	3764494	0.0016	1.43E-06
62	467191	3764594	0.0016	1.43E-06
82	467391	3764594	0.0016	1.43E-06
24	466791	3764394	0.00155	1.39E-06
26	466791	3764194	0.00153	1.37E-06
60	467091	3763794	0.00147	1.31E-06
38	466891	3763994	0.00142	1.27E-06
49	466991	3763894	0.00142	1.27E-06
92	467491	3764594	0.00141	1.26E-06
52	467091	3764594	0.00137	1.22E-06
27	466791	3764094	0.00134	1.20E-06
33	466891	3764494	0.00132	1.18E-06
12	467591	3764594	0.00127	1.14E-06
5	466691	3764294	0.00125	1.12E-06
71	467291	3764694	0.00122	1.09E-06
4	466691	3764394	0.00118	1.05E-06

Index	Easting	Northing	Concentration	Cancer Risk
50	466991	3763794	0.00118	1.05E-06
42	466991	3764594	0.00117	1.05E-06
6	466691	3764194	0.00115	1.03E-06
39	466891	3763894	0.00115	1.03E-06
61	467191	3764694	0.00115	1.03E-06
81	467391	3764694	0.00114	1.02E-06
28	466791	3763994	0.00113	1.01E-06
23	466791	3764494	0.00108	9.65E-07
7	466691	3764094	0.00103	9.21E-07
51	467091	3764694	0.00102	9.12E-07
91	467491	3764694	0.00101	9.03E-07
32	466891	3764594	0.00099	8.85E-07
40	466891	3763794	0.00096	8.58E-07
29	466791	3763894	0.00094	8.40E-07
8	466691	3763994	0.0009	8.04E-07
11	467591	3764694	0.0009	8.04E-07
41	466991	3764694	0.00089	7.95E-07
3	466691	3764494	0.00088	7.86E-07
22	466791	3764594	0.00084	7.51E-07
30	466791	3763794	0.00079	7.06E-07
31	466891	3764694	0.00078	6.97E-07
9	466691	3763894	0.00076	6.79E-07
2	466691	3764594	0.00071	6.35E-07
21	466791	3764694	0.00067	5.99E-07
10	466691	3763794	0.00065	5.81E-07
1	466691	3764694	0.00057	5.09E-07

Table 8 (25 Years (Maximum) Worker Cancer Risk (Discrete Receptors))

Index	Easting	Northing	Concentration	Cancer Risk
8	467409	3764230	0.01766	1.09E-06
9	467550	3764077	0.00563	3.48E-07
11	467687	3764217	0.00433	2.68E-07
10	467600	3764395	0.004	2.48E-07
12	467747	3764156	0.00323	2.00E-07
5	467125	3764458	0.00257	1.59E-07
7	467253	3764509	0.00241	1.49E-07
4	467110	3763852	0.00172	1.06E-07
6	467142	3764560	0.00169	1.05E-07
2	466721	3764309	0.00146	9.04E-08

Index	Easting	Northing	Concentration	Cancer Risk
3	466773	3764400	0.00143	8.85E-08
1	466685	3764396	0.00114	7.06E-08

6.2 Cancer Risk and Cancer Burden

The breadth of averaging options was included in this study to provide the broadest depth of information regarding cancer risk to the public and local decision makers. In regards to the health risk assessment and CEQA, identifying the MICR is based on the greater of the MEIW and MEIR using the appropriate scenario for those receptors categories and PMI is assessed through community exposure. The lifetime exposure scenario is appropriate for determining cancer burden in those areas that may be exposed to cancer risk greater than one in one million cases. Evaluation of these scenarios will identify any receptors that exceed the MICR of 10 in one million or the 0.5 increased cancer burden thresholds promulgated by SCAQMD.

The site of the MEIR is the residential dwelling unit located at 3610 Placentia Lane, east of the project site. The incremental increase in cancer risk at this property is 2.87 in one million as identified as Index 6 of Table 6. The location of the MEIW is at the Brothers Towing of Riverside site directly east of the project site at 3655 Placentia Ln. The incremental increase in cancer risk at this business is 1.09 in one million and is identified as Index 8 of Table 8.

Cancer burden is the product of public cancer risk and the population exposed to the carcinogen. There are 25 residential properties located within ¼-mile of the project site. Census data indicates that the average owner-occupied household size in the city is 3.10 persons per dwelling unit, thus, an estimated population of 78 people live within one-quarter mile of the project site. The average cancer risk based on the lifetime exposure scenario is 3.34E-06 (approximately 3.34 cases per million people). The product of the cancer risk and the estimated population is 0.0003. This does not exceed the SCAQMD threshold of 0.5 excess cancer cases. Under a worst-case scenario, the PMI calculated as cancer burden of 0.0025 cases is located at the Brothers Towing of Riverside site. This point on the receptor grid is identified as Index 76 of Table 7. Under neither scenario would cancer burden exceed the applicable threshold.

6.3 Non-Cancer Risk

Chronic non-cancer risks are considered significant if the project toxic air contaminant emissions result in a hazard index greater than or equal to one. The hazard index is determined by calculating the average annual toxic concentration ($\mu g/m^3$) divided by the reference exposure level (REL) for a particular toxic. The REL is the concentration at which no adverse health impacts are anticipated and is established by OEHHA. The chronic REL for DPM was established by OEHHA as 5 $\mu g/m^3$. Non-cancer risk is estimated using Equation 8 (Chronic Hazard Quotient). Chronic non-cancer risk was evaluated using HARP and identified the highest hazard index or 0.00712, identified as Index 76 of the lifetime receptor grid. This does not exceed the hazard index threshold of one promulgated by SCAQMD.

Equation 8 (Chronic Hazard Quotient)

$$HI_{DPM} = \frac{C_{DPM}}{REL_{AAC}}$$

Where:

HI_{DPM} Hazard Index; an expression of the potential for non-cancer health effects.
C_{DPM} Annual average DPM concentration ($\mu g/m^3$)
REL_{DPM} Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

6.4 Conclusion

Discrete and grid receptor cancer risks are detailed in the AERMOD and HARP-RAST output files included in the appendix of this report. No thresholds for cancer or non-cancer risk will be exceeded by the project. The results of the study are summarized in Table 9 ((Cancer and Non-Cancer Risk Summary).

Table 9 (Cancer and Non-Cancer Risk Summary)

Receptor (Exposure Time)	Exposure Level	Threshold	Potentially Significant?
Resident (30 Years) Cancer Risk	0.000002870	0.00001	No
Worker (25 Years) Cancer Risk	0.000001090	0.00001	No
Community Level (70 Years) Cancer Risk	0.002500000	0.50000	No
Non-Cancer Hazard index	0.007120000	1.00000	No

Center Street Building

70-Year Cancer Burden

Created at 3:12 AM on June 10, 2016 by NMPlot 4.967
Center Street Health Risk Assessment

0 100 200 300 400 500 600 700 800

Scale in Meters 1:8,860 (1 cm. = 88.6 meters)

N

7 Index of Acronyms

8 Bibliography

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calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate
2018	Annual	Riverside (SC)	HHDT	Dsl	79	38	RUNEX	10	PM	0.053097344
2018	Annual	Riverside (SC)	HHDT	Dsl	79	38	RUNEX	25	PM	0.030758347
2018	Annual	Riverside (SC)	MHDT	Dsl	79	38	RUNEX	10	PM	0.228727645
2018	Annual	Riverside (SC)	MHDT	Dsl	79	38	RUNEX	25	PM	0.105783846
2018	Annual	Riverside (SC)	HHDT	Dsl			IDLEX		PM	0.03324648
2018	Annual	Riverside (SC)	MHDT	Dsl			IDLEX		PM	0.320429071

Planning Commission - Exhibit 1 - Development Review Committee Staff Report
Development Review Committee - Exhibit 7 - CEQA Documents

```
Center Street

                             BPIP (Dated: 04274)
DATE :  6/12/2015
TIME : 15: 6:23
Center Street

============================
BPIP PROCESSING INFORMATION:
============================

  The P  flag has been set for preparing downwash related data
         for a model run utilizing the PRIME algorithm.

  Inputs entered in METERS     will be converted to meters using
   a conversion factor of    1.0000.  Output will be in meters.

  The UTMP variable is set to UTMY.  The input is assumed to be in
    UTM coordinates.  BPIP will move the UTM origin to the first pair of
    UTM coordinates read.  The UTM coordinates of the new origin will
    be subtracted from all the other UTM coordinates entered to form
    this new local coordinate system.

  The new local coordinates will be displayed in parentheses just below
    the UTM coordinates they represent.

  Plant north is set to   0.00 degrees with respect to True North.



==============
INPUT SUMMARY:
==============


Number of buildings to be processed :   1


BLD      has 1 tier(s) with a base elevation of    0.00 METERS
BUILDING  TIER  BLDG-TIER  TIER   NO. OF      CORNER   COORDINATES
  NAME   NUMBER   NUMBER  HEIGHT  CORNERS        X           Y

BLD         1        1     12.00     6
                                            467124.00  3764208.00 meters
                                        (        0.00        0.00) meters
                                            467369.00  3764208.00 meters
                                        (      245.00        0.00) meters
                                            467369.00  3764321.00 meters
                                        (      245.00      113.00) meters
                                            467107.00  3764321.00 meters
                                        (      -17.00      113.00) meters
                                            467107.00  3764287.00 meters
                                        (      -17.00       79.00) meters
                                            467124.00  3764287.00 meters
                                        (        0.00       79.00) meters

Number of stacks to be processed :   2

                   STACK            STACK   COORDINATES
 STACK NAME     BASE  HEIGHT          X           Y

 DOC1           0.00    4.12 METERS
```

```
                             467186.00  3764204.00 meters
                         (       62.00       -4.00) meters
 DOC2           0.00    4.12 METERS
                             467308.00  3764204.00 meters
                         (      184.00       -4.00) meters

   No stacks have been detected as being atop any structures.


                    Overall GEP Summary Table
                         (Units: meters)


StkNo:  1  Stk Name:DOC1     Stk Ht:   4.12 Prelim. GEP Stk.Ht:   65.00
           GEP:  BH:  12.00  PBW:  129.82             *Eqn1 Ht:   30.00
         *adjusted for a Stack-Building elevation difference of    0.00
 No. of Tiers affecting Stk:  1  Direction occurred:   94.00
  Bldg-Tier nos. contributing to GEP:   1


StkNo:  2  Stk Name:DOC2     Stk Ht:   4.12 Prelim. GEP Stk.Ht:   65.00
           GEP:  BH:  12.00  PBW:  129.82             *Eqn1 Ht:   30.00
         *adjusted for a Stack-Building elevation difference of    0.00
 No. of Tiers affecting Stk:  1  Direction occurred:   94.00
  Bldg-Tier nos. contributing to GEP:   1




                    Summary By Direction Table
                         (Units:  meters)

Dominate stand alone tiers:


Drtcn:  10.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 277.64  PBL: 153.83  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:   -6.83  YADJ:  -40.70

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 277.64  PBL: 153.83  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -28.01  YADJ:   79.44

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn:  20.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 284.85  PBL: 189.98  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -17.45  YADJ:  -28.17

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
```

```
    Single tier MAX:  BH:  12.00  PBW: 284.85  PBL: 189.98  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -59.17  YADJ:   86.47

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn:  30.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 283.40  PBL: 220.36  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -27.54  YADJ:  -14.78

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 283.40  PBL: 220.36  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -88.54  YADJ:   90.87

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn:  40.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 273.34  PBL: 244.05  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -36.79  YADJ:   -0.95

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 273.34  PBL: 244.05  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -115.21  YADJ:   92.51

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn:  50.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 254.97  PBL: 260.32  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -44.92  YADJ:   12.92

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 254.97  PBL: 260.32  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -138.38  YADJ:   91.34

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn:  60.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 228.86  PBL: 268.68  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -51.69  YADJ:   26.39
```

```
          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                               Stack Ht:    4.12
                 GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 228.86  PBL: 268.68  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -157.35  YADJ:   87.39

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn:  70.00

StkNo:  1  Stk Name:DOC1                               Stack Ht:    4.12
                 GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 195.79  PBL: 268.87  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -56.89  YADJ:   39.07

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                               Stack Ht:    4.12
                 GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 195.79  PBL: 268.87  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -171.54  YADJ:   80.79

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn:  80.00

StkNo:  1  Stk Name:DOC1                               Stack Ht:    4.12
                 GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 156.78  PBL: 263.92  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -63.39  YADJ:   50.55

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                               Stack Ht:    4.12
                 GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 156.78  PBL: 263.92  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -183.53  YADJ:   71.74

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn:  90.00

StkNo:  1  Stk Name:DOC1                               Stack Ht:    4.12
                 GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 113.00  PBL: 262.00  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -79.00  YADJ:   60.50

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                               Stack Ht:    4.12
                 GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 113.00  PBL: 262.00  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -201.00  YADJ:   60.50

          *adjusted for a Stack-Building elevation difference of    0.00
                BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 100.00
```

```
StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 153.83  PBL: 277.64  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -98.12  YADJ:   70.09

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 153.83  PBL: 277.64  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -218.26  YADJ:   48.90

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 110.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 189.98  PBL: 284.85  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -114.25  YADJ:   77.54

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 189.98  PBL: 284.85  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -228.89  YADJ:   35.82

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 120.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 220.36  PBL: 283.40  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -126.92  YADJ:   82.64

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 220.36  PBL: 283.40  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -232.57  YADJ:   21.64

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 130.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 244.05  PBL: 273.34  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -135.72  YADJ:   85.23

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 244.05  PBL: 273.34  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -229.18  YADJ:    6.81
```

```
         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 140.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 260.32  PBL: 254.97  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -140.41  YADJ:   85.23

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 260.32  PBL: 254.97  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -218.83  YADJ:   -8.22

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 150.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 268.68  PBL: 228.86  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -140.82  YADJ:   82.64

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 268.68  PBL: 228.86  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -201.82  YADJ:  -23.01

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 160.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 268.87  PBL: 195.79  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -136.96  YADJ:   77.54

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 268.87  PBL: 195.79  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -178.69  YADJ:  -37.10

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 170.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 263.92  PBL: 156.78  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -128.94  YADJ:   68.57

         *adjusted for a Stack-Building elevation difference of    0.00
```

```
             BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
              GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 263.92  PBL: 156.78  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -150.13  YADJ:  -51.57

         *adjusted for a Stack-Building elevation difference of    0.00
             BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 180.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
              GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 262.00  PBL: 113.00  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -117.00  YADJ:   52.00

         *adjusted for a Stack-Building elevation difference of    0.00
             BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
              GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 262.00  PBL: 113.00  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -117.00  YADJ:  -70.00

         *adjusted for a Stack-Building elevation difference of    0.00
             BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 190.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
              GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 277.64  PBL: 153.83  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -147.00  YADJ:   40.70

         *adjusted for a Stack-Building elevation difference of    0.00
             BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
              GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 277.64  PBL: 153.83  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -125.82  YADJ:  -79.44

         *adjusted for a Stack-Building elevation difference of    0.00
             BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 200.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
              GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 284.85  PBL: 189.98  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -172.53  YADJ:   28.17

         *adjusted for a Stack-Building elevation difference of    0.00
             BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
              GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 284.85  PBL: 189.98  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -130.81  YADJ:  -86.47

         *adjusted for a Stack-Building elevation difference of    0.00
             BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 210.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
```

```
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 283.40  PBL: 220.36  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -192.83  YADJ:   14.78

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                             Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 283.40  PBL: 220.36  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -131.82  YADJ:  -90.87

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 220.00

StkNo:  1  Stk Name:DOC1                             Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 273.34  PBL: 244.05  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -207.26  YADJ:    0.95

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                             Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 273.34  PBL: 244.05  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -128.84  YADJ:  -92.51

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 230.00

StkNo:  1  Stk Name:DOC1                             Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 254.97  PBL: 260.32  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -215.39  YADJ:  -12.92

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                             Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 254.97  PBL: 260.32  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -121.93  YADJ:  -91.34

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 240.00

StkNo:  1  Stk Name:DOC1                             Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 228.86  PBL: 268.68  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -216.98  YADJ:  -26.39

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                             Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 228.86  PBL: 268.68  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -111.33  YADJ:  -87.39

         *adjusted for a Stack-Building elevation difference of    0.00
```

```
              BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 250.00

StkNo:  1  Stk Name:DOC1                               Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 195.79  PBL: 268.87  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -211.98  YADJ:  -39.07

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                               Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 195.79  PBL: 268.87  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -97.34  YADJ:  -80.79

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 260.00

StkNo:  1  Stk Name:DOC1                               Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 156.78  PBL: 263.92  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -200.54  YADJ:  -50.55

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                               Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 156.78  PBL: 263.92  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -80.39  YADJ:  -71.74

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 270.00

StkNo:  1  Stk Name:DOC1                               Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 113.00  PBL: 262.00  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -183.00  YADJ:  -60.50

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                               Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 113.00  PBL: 262.00  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -61.00  YADJ:  -60.50

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 280.00

StkNo:  1  Stk Name:DOC1                               Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 153.83  PBL: 277.64  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -179.53  YADJ:  -70.09

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                               Stack Ht:    4.12
```

```
               GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 153.83  PBL: 277.64  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -59.38  YADJ:  -48.90

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 290.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
               GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 189.98  PBL: 284.85  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -170.60  YADJ:  -77.54

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
               GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 189.98  PBL: 284.85  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -55.95  YADJ:  -35.82

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 300.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
               GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 220.36  PBL: 283.40  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -156.48  YADJ:  -82.64

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
               GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 220.36  PBL: 283.40  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -50.83  YADJ:  -21.64

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 310.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
               GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 244.05  PBL: 273.34  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ: -137.61  YADJ:  -85.23

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
               GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 244.05  PBL: 273.34  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -44.16  YADJ:   -6.81

         *adjusted for a Stack-Building elevation difference of    0.00
              BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 320.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
               GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 260.32  PBL: 254.97  *Wake Effect Ht:   30.00
```

```
    Relative Coordinates of Projected Width Mid-point: XADJ: -114.57  YADJ:  -85.23

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 260.32  PBL: 254.97  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -36.15  YADJ:    8.22

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 330.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 268.68  PBL: 228.86  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -88.04  YADJ:  -82.64

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 268.68  PBL: 228.86  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -27.04  YADJ:   23.01

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 340.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 268.87  PBL: 195.79  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -58.83  YADJ:  -77.54

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 268.87  PBL: 195.79  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -17.10  YADJ:   37.10

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1

Drtcn: 350.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 263.92  PBL: 156.78  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:  -27.84  YADJ:  -68.57

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 263.92  PBL: 156.78  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:   -6.65  YADJ:   51.57

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
```

```
Drtcn: 360.00

StkNo:  1  Stk Name:DOC1                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 262.00  PBL: 113.00  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:    4.00  YADJ:  -52.00

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1
StkNo:  2  Stk Name:DOC2                              Stack Ht:    4.12
                GEP:  BH:  12.00  PBW: 129.82   *Equation 1 Ht:   30.00
    Single tier MAX:  BH:  12.00  PBW: 262.00  PBL: 113.00  *Wake Effect Ht:   30.00
    Relative Coordinates of Projected Width Mid-point: XADJ:    4.00  YADJ:   70.00

         *adjusted for a Stack-Building elevation difference of    0.00
               BldNo:  1  Bld Name:BLD       TierNo:  1


Dominant combined buildings:  None
```

```
CO STARTING
   TITLEONE  13432 Center Street (v3)
   MODELOPT  CONC FLAT FASTALL
   AVERTIME  PERIOD
   URBANOPT  2100516 Riverside
   POLLUTID  PM
   RUNORNOT  RUN
CO FINISHED

SO STARTING
   ELEVUNIT  METERS

**                      E      N       Z
**                      ------ ------- -
   LOCATION  AIS1 AREAPOLY 467124 3764187 0
   URBANSRC  AIS1

   LOCATION  AIS2 AREAPOLY 467247 3764187 0
   URBANSRC  AIS2

   LOCATION  CEN1 AREAPOLY 466677 3764351 0
   URBANSRC  CEN1

   LOCATION  CEN2 AREAPOLY 467111 3764350 0
   URBANSRC  CEN2

   LOCATION  CEN3 AREAPOLY 467374 3764346 0
   URBANSRC  CEN3

   LOCATION  DOC1 POINT    467186 3764204 0
   URBANSRC  DOC1

   LOCATION  DOC2 POINT    467308 3764204 0
   URBANSRC  DOC2

** Poly Source    EF             HT   V
** Parameters:    -------------- ---- --
   SRCPARAM  AIS1 0.000000003175 4.12 13
   AREAVERT  AIS1 467124 3764187
   AREAVERT  AIS1 467247 3764187
   AREAVERT  AIS1 467247 3764208
   AREAVERT  AIS1 467124 3764208
   AREAVERT  AIS1 467124 3764287
   AREAVERT  AIS1 467102 3764287
   AREAVERT  AIS1 467102 3764314
   AREAVERT  AIS1 467111 3764329
   AREAVERT  AIS1 467111 3764350
   AREAVERT  AIS1 467100 3764350
   AREAVERT  AIS1 467100 3764333
   AREAVERT  AIS1 467090 3764315
   AREAVERT  AIS1 467090 3764315

   SRCPARAM  AIS2 0.000000008525 4.12 8
   AREAVERT  AIS2 467247 3764187
   AREAVERT  AIS2 467374 3764187
   AREAVERT  AIS2 467389 3764285
   AREAVERT  AIS2 467386 3764346
   AREAVERT  AIS2 467374 3764346
   AREAVERT  AIS2 467374 3764278
```

```
AREAVERT  AIS2 467364 3764207
AREAVERT  AIS2 467247 3764208

SRCPARAM  CEN1 0.000000000881 4.12 12
AREAVERT  CEN1 466677 3764351
AREAVERT  CEN1 466827 3764352
AREAVERT  CEN1 466858 3764356
AREAVERT  CEN1 467100 3764355
AREAVERT  CEN1 467100 3764350
AREAVERT  CEN1 467111 3764350
AREAVERT  CEN1 467111 3764369
AREAVERT  CEN1 466986 3764369
AREAVERT  CEN1 466978 3764364
AREAVERT  CEN1 466858 3764364
AREAVERT  CEN1 466830 3764360
AREAVERT  CEN1 466677 3764358

SRCPARAM  CEN2 0.000000001403 4.12 4
AREAVERT  CEN2 467111 3764350
AREAVERT  CEN2 467374 3764346
AREAVERT  CEN2 467374 3764368
AREAVERT  CEN2 467111 3764369

SRCPARAM  CEN3 0.000000003824 4.12 12
AREAVERT  CEN3 467374 3764346
AREAVERT  CEN3 467386 3764346
AREAVERT  CEN3 467479 3764348
AREAVERT  CEN3 467516 3764344
AREAVERT  CEN3 467554 3764336
AREAVERT  CEN3 467579 3764333
AREAVERT  CEN3 467737 3764267
AREAVERT  CEN3 467740 3764281
AREAVERT  CEN3 467573 3764350
AREAVERT  CEN3 467532 3764361
AREAVERT  CEN3 467485 3764367
AREAVERT  CEN3 467374 3764368

** Point Source   EF            HT   TMP     V  D
** Parameters:   -------------- ---- ------- -- ------
SRCPARAM  DOC1 0.000059122861 4.12 366.483 50 0.1016
SRCPARAM  DOC2 0.000109799599 4.12 366.483 50 0.1016

** Building Downwash
SO BUILDHGT DOC1      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDHGT DOC1      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDHGT DOC1      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDHGT DOC1      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDHGT DOC1      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDHGT DOC1      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDWID DOC1     277.64  284.85  283.40  273.34  254.97  228.86
SO BUILDWID DOC1     195.79  156.78  113.00  153.83  189.98  220.36
SO BUILDWID DOC1     244.05  260.32  268.68  268.87  263.92  262.00
SO BUILDWID DOC1     277.64  284.85  283.40  273.34  254.97  228.86
SO BUILDWID DOC1     195.79  156.78  113.00  153.83  189.98  220.36
SO BUILDWID DOC1     244.05  260.32  268.68  268.87  263.92  262.00
SO BUILDLEN DOC1     153.83  189.98  220.36  244.05  260.32  268.68
SO BUILDLEN DOC1     268.87  263.92  262.00  277.64  284.85  283.40
SO BUILDLEN DOC1     273.34  254.97  228.86  195.79  156.78  113.00
SO BUILDLEN DOC1     153.83  189.98  220.36  244.05  260.32  268.68
```

```
SO BUILDLEN DOC1     268.87  263.92  262.00  277.64  284.85  283.40
SO BUILDLEN DOC1     273.34  254.97  228.86  195.79  156.78  113.00
SO XBADJ    DOC1      -6.83  -17.45  -27.54  -36.79  -44.92  -51.69
SO XBADJ    DOC1     -56.89  -63.39  -79.00  -98.12 -114.25 -126.92
SO XBADJ    DOC1    -135.72 -140.41 -140.82 -136.96 -128.94 -117.00
SO XBADJ    DOC1    -147.00 -172.53 -192.83 -207.26 -215.39 -216.98
SO XBADJ    DOC1    -211.98 -200.54 -183.00 -179.53 -170.60 -156.48
SO XBADJ    DOC1    -137.61 -114.57  -88.04  -58.83  -27.84    4.00
SO YBADJ    DOC1     -40.70  -28.17  -14.78   -0.95   12.92   26.39
SO YBADJ    DOC1      39.07   50.55   60.50   70.09   77.54   82.64
SO YBADJ    DOC1      85.23   85.23   82.64   77.54   68.57   52.00
SO YBADJ    DOC1      40.70   28.17   14.78    0.95  -12.92  -26.39
SO YBADJ    DOC1     -39.07  -50.55  -60.50  -70.09  -77.54  -82.64
SO YBADJ    DOC1     -85.23  -85.23  -82.64  -77.54  -68.57  -52.00

SO BUILDHGT DOC2      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDHGT DOC2      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDHGT DOC2      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDHGT DOC2      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDHGT DOC2      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDHGT DOC2      12.00   12.00   12.00   12.00   12.00   12.00
SO BUILDWID DOC2     277.64  284.85  283.40  273.34  254.97  228.86
SO BUILDWID DOC2     195.79  156.78  113.00  153.83  189.98  220.36
SO BUILDWID DOC2     244.05  260.32  268.68  268.87  263.92  262.00
SO BUILDWID DOC2     277.64  284.85  283.40  273.34  254.97  228.86
SO BUILDWID DOC2     195.79  156.78  113.00  153.83  189.98  220.36
SO BUILDWID DOC2     244.05  260.32  268.68  268.87  263.92  262.00
SO BUILDLEN DOC2     153.83  189.98  220.36  244.05  260.32  268.68
SO BUILDLEN DOC2     268.87  263.92  262.00  277.64  284.85  283.40
SO BUILDLEN DOC2     273.34  254.97  228.86  195.79  156.78  113.00
SO BUILDLEN DOC2     153.83  189.98  220.36  244.05  260.32  268.68
SO BUILDLEN DOC2     268.87  263.92  262.00  277.64  284.85  283.40
SO BUILDLEN DOC2     273.34  254.97  228.86  195.79  156.78  113.00
SO XBADJ    DOC2     -28.01  -59.17  -88.54 -115.21 -138.38 -157.35
SO XBADJ    DOC2    -171.54 -183.53 -201.00 -218.26 -228.89 -232.57
SO XBADJ    DOC2    -229.18 -218.83 -201.82 -178.69 -150.13 -117.00
SO XBADJ    DOC2    -125.82 -130.81 -131.82 -128.84 -121.93 -111.33
SO XBADJ    DOC2     -97.34  -80.39  -61.00  -59.38  -55.95  -50.83
SO XBADJ    DOC2     -44.16  -36.15  -27.04  -17.10   -6.65    4.00
SO YBADJ    DOC2      79.44   86.47   90.87   92.51   91.34   87.39
SO YBADJ    DOC2      80.79   71.74   60.50   48.90   35.82   21.64
SO YBADJ    DOC2       6.81   -8.22  -23.01  -37.10  -51.57  -70.00
SO YBADJ    DOC2     -79.44  -86.47  -90.87  -92.51  -91.34  -87.39
SO YBADJ    DOC2     -80.79  -71.74  -60.50  -48.90  -35.82  -21.64
SO YBADJ    DOC2      -6.81    8.22   23.01   37.10   51.57   70.00

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDCART NET1 STA
                XYINC 466691 10 100 3763794 10 100
RE GRIDCART NET1 END

**         E      N
**         ------ -------
RE DISCCART 467687 3764217
RE DISCCART 466721 3764309
RE DISCCART 467110 3763852
```

```
RE DISCCART 467747 3764156
RE DISCCART 467409 3764230
RE DISCCART 467550 3764077
RE DISCCART 467600 3764395
RE DISCCART 466773 3764400
RE DISCCART 466685 3764396
RE DISCCART 467142 3764560
RE DISCCART 467253 3764509
RE DISCCART 467125 3764458
RE DISCCART 466818 3764404
RE DISCCART 466724 3764152
RE DISCCART 466699 3764107
RE DISCCART 466906 3764000
RE DISCCART 467546 3763993
RE DISCCART 467561 3763987
RE DISCCART 467567 3763930
RE DISCCART 467569 3763901
RE DISCCART 467565 3763885
RE DISCCART 467652 3764011
RE DISCCART 467658 3763981
RE DISCCART 467614 3763915
RE DISCCART 467621 3763893
RE DISCCART 467613 3763872
RE DISCCART 467603 3763849
RE DISCCART 467595 3763829
RE DISCCART 467575 3763756
RE DISCCART 467721 3763881
RE DISCCART 467702 3763877
RE DISCCART 467691 3763858
RE DISCCART 467680 3763839
RE DISCCART 467665 3763821
RE DISCCART 467635 3763787
RE DISCCART 467244 3763650

RE FINISHED

ME STARTING
   SURFFILE  rivr8.sfc
   PROFFILE  rivr8.pfl
"   SURFDATA  0     2008 RIVERSIDE,CA"
"   UAIRDATA  3190  2008 RIVERSIDE,CA"
   PROFBASE  0.0  METERS
ME FINISHED

OU STARTING
   RECTABLE  ALLAVE  FIRST-THIRD
   MAXTABLE  ALLAVE  50
   SUMMFILE  13432_3.SUM
   PLOTFILE  PERIOD ALL 13432_3.PLT
OU FINISHED

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

```
**MODELOPTs:   NonDFAULT CONC     FLAT     FASTALL   URBAN

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

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

" **Model Uses URBAN Dispersion Algorithm for the SBL for    7 Source(s),"
  for Total of    1 Urban Area(s):
  Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

**Model Allows User-Specified Options:
       1. Stack-tip Downwash.
       2. Model Assumes Receptors on FLAT Terrain.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Used.

**Other Options Specified:
       FASTALL  - Use effective sigma-y to optimize meander for
"                 POINT and VOLUME sources, and hybrid approach"
                 to optimize AREA sources (formerly TOXICS option)
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  PM

**Model Calculates PERIOD Averages Only

**This Run Includes:     7 Source(s);      1 Source Group(s); and    136 Receptor(s)

"             with:     2 POINT(s), including"
                      0 POINTCAP(s) and     0 POINTHOR(s)
              and:     0 VOLUME source(s)
              and:     5 AREA type source(s)
              and:     0 LINE source(s)
              and:     0 OPENPIT source(s)


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

**The AERMET Input Meteorological Data Version Date:  14134

**Output Options Selected:
        Model Outputs Tables of PERIOD Averages by Receptor
        Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
        Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE 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) =     0.00 ;  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 =     3.5 MB of RAM.

**File for Summary of Results:   13432_3.SUM
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL URBAN

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
DOC1	0	0.59123E-04	467186.0	3764204.0	0.0	4.12	366.48	50.00	0.10	YES	YES	NO	
DOC2	0	0.10980E-03	467308.0	3764204.0	0.0	4.12	366.48	50.00	0.10	YES	YES	NO	

**MODELOPTs: NonDFAULT CONC FLAT FASTALL URBAN

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	LOCATION OF AREA Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AIS1	0	0.31750E-08	467124.0	3764187.0	0.0	4.12	13	0.00	YES	
AIS2	0	0.85250E-08	467247.0	3764187.0	0.0	4.12	8	0.00	YES	
CEN1	0	0.88100E-09	466677.0	3764351.0	0.0	4.12	12	0.00	YES	
CEN2	0	0.14030E-08	467111.0	3764350.0	0.0	4.12	4	0.00	YES	
CEN3	0	0.38240E-08	467374.0	3764346.0	0.0	4.12	12	0.00	YES	

```
*** AERMOD - VERSION  15181 ***   ***  13432 Center Street (v3)                                   ***       06/06/16
*** AERMET - VERSION  14134 ***   ***                                                          ***       00:05:36
                                                                                                  PAGE   4
**MODELOPTs:   NonDFAULT CONC     FLAT     FASTALL   URBAN


                                 *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                       SOURCE IDs
-----------                                       ----------

 ALL       AIS1      , AIS2      , CEN1      , CEN2      , CEN3      , DOC1      , DOC2      ,"
```

```
*** AERMOD - VERSION  15181 ***   ***  13432 Center Street (v3)                                              ***       06/06/16
*** AERMET - VERSION  14134 ***   ***                                                                     ***       00:05:36
                                                                                                                   PAGE   5
**MODELOPTs:   NonDFAULT CONC     FLAT     FASTALL   URBAN


                                  *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP                                SOURCE IDs
 --------   ---------                                ----------


            2100516.   AIS1      , AIS2      , CEN1      , CEN2      , CEN3      , DOC1      , DOC2      ,"
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL URBAN

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: DOC1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.0,	277.6,	153.8,	-6.8,	-40.7,	2	12.0,	284.9,	190.0,	-17.4,	-28.2,"
3	12.0,	283.4,	220.4,	-27.5,	-14.8,	4	12.0,	273.3,	244.1,	-36.8,	-1.0,"
5	12.0,	255.0,	260.3,	-44.9,	12.9,	6	12.0,	228.9,	268.7,	-51.7,	26.4,"
7	12.0,	195.8,	268.9,	-56.9,	39.1,	8	12.0,	156.8,	263.9,	-63.4,	50.5,"
9	12.0,	113.0,	262.0,	-79.0,	60.5,	10	12.0,	153.8,	277.6,	-98.1,	70.1,"
11	12.0,	190.0,	284.9,	-114.2,	77.5,	12	12.0,	220.4,	283.4,	-126.9,	82.6,"
13	12.0,	244.1,	273.3,	-135.7,	85.2,	14	12.0,	260.3,	255.0,	-140.4,	85.2,"
15	12.0,	268.7,	228.9,	-140.8,	82.6,	16	12.0,	268.9,	195.8,	-137.0,	77.5,"
17	12.0,	263.9,	156.8,	-128.9,	68.6,	18	12.0,	262.0,	113.0,	-117.0,	52.0,"
19	12.0,	277.6,	153.8,	-147.0,	40.7,	20	12.0,	284.9,	190.0,	-172.5,	28.2,"
21	12.0,	283.4,	220.4,	-192.8,	14.8,	22	12.0,	273.3,	244.1,	-207.3,	1.0,"
23	12.0,	255.0,	260.3,	-215.4,	-12.9,	24	12.0,	228.9,	268.7,	-217.0,	-26.4,"
25	12.0,	195.8,	268.9,	-212.0,	-39.1,	26	12.0,	156.8,	263.9,	-200.5,	-50.5,"
27	12.0,	113.0,	262.0,	-183.0,	-60.5,	28	12.0,	153.8,	277.6,	-179.5,	-70.1,"
29	12.0,	190.0,	284.9,	-170.6,	-77.5,	30	12.0,	220.4,	283.4,	-156.5,	-82.6,"
31	12.0,	244.1,	273.3,	-137.6,	-85.2,	32	12.0,	260.3,	255.0,	-114.6,	-85.2,"
33	12.0,	268.7,	228.9,	-88.0,	-82.6,	34	12.0,	268.9,	195.8,	-58.8,	-77.5,"
35	12.0,	263.9,	156.8,	-27.8,	-68.6,	36	12.0,	262.0,	113.0,	4.0,	-52.0,"

SOURCE ID: DOC2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.0,	277.6,	153.8,	-28.0,	79.4,	2	12.0,	284.9,	190.0,	-59.2,	86.5,"
3	12.0,	283.4,	220.4,	-88.5,	90.9,	4	12.0,	273.3,	244.1,	-115.2,	92.5,"
5	12.0,	255.0,	260.3,	-138.4,	91.3,	6	12.0,	228.9,	268.7,	-157.4,	87.4,"
7	12.0,	195.8,	268.9,	-171.5,	80.8,	8	12.0,	156.8,	263.9,	-183.5,	71.7,"
9	12.0,	113.0,	262.0,	-201.0,	60.5,	10	12.0,	153.8,	277.6,	-218.3,	48.9,"
11	12.0,	190.0,	284.9,	-228.9,	35.8,	12	12.0,	220.4,	283.4,	-232.6,	21.6,"
13	12.0,	244.1,	273.3,	-229.2,	6.8,	14	12.0,	260.3,	255.0,	-218.8,	-8.2,"
15	12.0,	268.7,	228.9,	-201.8,	-23.0,	16	12.0,	268.9,	195.8,	-178.7,	-37.1,"
17	12.0,	263.9,	156.8,	-150.1,	-51.6,	18	12.0,	262.0,	113.0,	-117.0,	-70.0,"
19	12.0,	277.6,	153.8,	-125.8,	-79.4,	20	12.0,	284.9,	190.0,	-130.8,	-86.5,"
21	12.0,	283.4,	220.4,	-131.8,	-90.9,	22	12.0,	273.3,	244.1,	-128.8,	-92.5,"
23	12.0,	255.0,	260.3,	-121.9,	-91.3,	24	12.0,	228.9,	268.7,	-111.3,	-87.4,"
25	12.0,	195.8,	268.9,	-97.3,	-80.8,	26	12.0,	156.8,	263.9,	-80.4,	-71.7,"
27	12.0,	113.0,	262.0,	-61.0,	-60.5,	28	12.0,	153.8,	277.6,	-59.4,	-48.9,"
29	12.0,	190.0,	284.9,	-55.9,	-35.8,	30	12.0,	220.4,	283.4,	-50.8,	-21.6,"
31	12.0,	244.1,	273.3,	-44.2,	-6.8,	32	12.0,	260.3,	255.0,	-36.1,	8.2,"
33	12.0,	268.7,	228.9,	-27.0,	23.0,	34	12.0,	268.9,	195.8,	-17.1,	37.1,"
35	12.0,	263.9,	156.8,	-6.6,	51.6,	36	12.0,	262.0,	113.0,	4.0,	70.0,"

```
**MODELOPTs:   NonDFAULT CONC     FLAT     FASTALL   URBAN

                              *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                         *** NETWORK ID: NET1    ;  NETWORK TYPE: GRIDCART ***

                               *** X-COORDINATES OF GRID ***
                                        (METERS)

    466691.0,  466791.0,  466891.0,  466991.0,  467091.0,  467191.0,  467291.0,  467391.0,  467491.0,  467591.0,"


                               *** Y-COORDINATES OF GRID ***
                                        (METERS)

   3763794.0, 3763894.0, 3763994.0, 3764094.0, 3764194.0, 3764294.0, 3764394.0, 3764494.0, 3764594.0, 3764694.0,"
```

```
**MODELOPTs:   NonDFAULT CONC     FLAT     FASTALL   URBAN

                                      *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)"
                                                 (METERS)

    ( 467687.0, 3764217.0,      0.0,      0.0,      0.0);       ( 466721.0, 3764309.0,      0.0,      0.0,      0.0);     "
    ( 467110.0, 3763852.0,      0.0,      0.0,      0.0);       ( 467747.0, 3764156.0,      0.0,      0.0,      0.0);     "
    ( 467409.0, 3764230.0,      0.0,      0.0,      0.0);       ( 467550.0, 3764077.0,      0.0,      0.0,      0.0);     "
    ( 467600.0, 3764395.0,      0.0,      0.0,      0.0);       ( 466773.0, 3764400.0,      0.0,      0.0,      0.0);     "
    ( 466685.0, 3764396.0,      0.0,      0.0,      0.0);       ( 467142.0, 3764560.0,      0.0,      0.0,      0.0);     "
    ( 467253.0, 3764509.0,      0.0,      0.0,      0.0);       ( 467125.0, 3764458.0,      0.0,      0.0,      0.0);     "
    ( 466818.0, 3764404.0,      0.0,      0.0,      0.0);       ( 466724.0, 3764152.0,      0.0,      0.0,      0.0);     "
    ( 466699.0, 3764107.0,      0.0,      0.0,      0.0);       ( 466906.0, 3764000.0,      0.0,      0.0,      0.0);     "
    ( 467546.0, 3763993.0,      0.0,      0.0,      0.0);       ( 467561.0, 3763987.0,      0.0,      0.0,      0.0);     "
    ( 467567.0, 3763930.0,      0.0,      0.0,      0.0);       ( 467569.0, 3763901.0,      0.0,      0.0,      0.0);     "
    ( 467565.0, 3763885.0,      0.0,      0.0,      0.0);       ( 467652.0, 3764011.0,      0.0,      0.0,      0.0);     "
    ( 467658.0, 3763981.0,      0.0,      0.0,      0.0);       ( 467614.0, 3763915.0,      0.0,      0.0,      0.0);     "
    ( 467621.0, 3763893.0,      0.0,      0.0,      0.0);       ( 467613.0, 3763872.0,      0.0,      0.0,      0.0);     "
    ( 467603.0, 3763849.0,      0.0,      0.0,      0.0);       ( 467595.0, 3763829.0,      0.0,      0.0,      0.0);     "
    ( 467575.0, 3763756.0,      0.0,      0.0,      0.0);       ( 467721.0, 3763881.0,      0.0,      0.0,      0.0);     "
    ( 467702.0, 3763877.0,      0.0,      0.0,      0.0);       ( 467691.0, 3763858.0,      0.0,      0.0,      0.0);     "
    ( 467680.0, 3763839.0,      0.0,      0.0,      0.0);       ( 467665.0, 3763821.0,      0.0,      0.0,      0.0);     "
    ( 467635.0, 3763787.0,      0.0,      0.0,      0.0);       ( 467244.0, 3763650.0,      0.0,      0.0,      0.0);     "
```

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*** AERMOD - VERSION  15181 ***   ***  13432 Center Street (v3)                                              ***       06/06/16
*** AERMET - VERSION  14134 ***   ***                                                                    ***       00:05:36
                                                                                                                  PAGE   9
**MODELOPTs:   NonDFAULT CONC     FLAT     FASTALL   URBAN

                                  *** 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:   NonDFAULT CONC      FLAT      FASTALL   URBAN

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

 Surface file:   rivr8.sfc                                                               Met Version:  14134
 Profile file:   rivr8.pfl
 Surface format: FREE
 Profile format: FREE
 Surface station no.:       0               Upper air station no.:    3190
              Name: RIVERSIDE,CA                         Name: RIVERSIDE,CA                    "
             Year:   2008                               Year:   2008

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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
08 01 01   1 01  -64.0  0.616 -9.000 -9.000 -999. 1157.    319.6  0.31   1.00   1.00    5.40   27.    9.1  287.5    5.5
08 01 01   1 02  -54.0  0.502 -9.000 -9.000 -999.  866.    204.9  0.31   1.00   1.00    4.50   40.    9.1  287.5    5.5
08 01 01   1 03  -16.4  0.152 -9.000 -9.000 -999.  347.     18.8  0.31   1.00   1.00    2.20   62.    9.1  287.0    5.5
08 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.31   1.00   1.00    3.10   67.    9.1  287.0    5.5
08 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.31   1.00   1.00    4.90   96.    9.1  286.4    5.5
08 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.31   1.00   1.00    3.10  342.    9.1  286.4    5.5
08 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.31   1.00   1.00    4.00   38.    9.1  287.0    5.5
08 01 01   1 08  -35.7  0.448 -9.000 -9.000 -999.  719.    220.9  0.31   1.00   0.53    4.00   62.    9.1  287.0    5.5
08 01 01   1 09   26.7  0.649  0.357  0.005   59. 1253.   -895.5  0.31   1.00   0.32    5.40  294.    9.1  288.1    5.5
08 01 01   1 10   76.5  0.503  0.700  0.009  157.  879.   -146.3  0.31   1.00   0.25    4.00   42.    9.1  289.2    5.5
08 01 01   1 11  123.5  0.418  1.124  0.012  404.  655.    -51.7  0.31   1.00   0.22    3.10   30.    9.1  290.9    5.5
08 01 01   1 12  130.9  0.715  1.311  0.005  605. 1451.   -245.0  0.31   1.00   0.21    5.80   37.    9.1  290.9    5.5
08 01 01   1 13   81.1  0.560  1.174  0.006  701. 1033.   -189.8  0.31   1.00   0.21    4.50    4.    9.1  290.9    5.5
08 01 01   1 14   76.4  0.604  1.171  0.005  739. 1124.   -252.5  0.31   1.00   0.23    4.90   13.    9.1  290.9    5.5
08 01 01   1 15   52.3  0.805  1.043  0.005  762. 1730.   -875.8  0.31   1.00   0.26    6.70   39.    9.1  290.9    5.5
08 01 01   1 16   11.1  0.377  0.624  0.011  767.  800.   -422.2  0.31   1.00   0.35    3.10  346.    9.1  290.4    5.5
08 01 01   1 17  -43.3  0.441 -9.000 -9.000 -999.  705.    173.6  0.31   1.00   0.63    4.00    9.    9.1  290.4    5.5
08 01 01   1 18  -29.0  0.400 -9.000 -9.000 -999.  608.    192.9  0.31   1.00   1.00    3.60   45.    9.1  289.9    5.5
08 01 01   1 19  -49.6  0.505 -9.000 -9.000 -999.  860.    227.3  0.31   1.00   1.00    4.50   25.    9.1  289.9    5.5
08 01 01   1 20  -64.0  0.730 -9.000 -9.000 -999. 1496.    533.1  0.31   1.00   1.00    6.30   60.    9.1  289.9    5.5
08 01 01   1 21  -29.1  0.400 -9.000 -9.000 -999.  736.    192.1  0.31   1.00   1.00    3.60  238.    9.1  288.8    5.5
08 01 01   1 22  -41.2  0.562 -9.000 -9.000 -999. 1010.    378.5  0.31   1.00   1.00    4.90   87.    9.1  287.5    5.5
08 01 01   1 23  -53.8  0.733 -9.000 -9.000 -999. 1504.    642.6  0.31   1.00   1.00    6.30   95.    9.1  287.0    5.5
08 01 01   1 24  -29.5  0.399 -9.000 -9.000 -999.  738.    189.5  0.31   1.00   1.00    3.60   37.    9.1  285.4    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
08 01 01 01    5.5 0 -999.  -99.00   287.6   99.0  -99.00  -99.00
08 01 01 01    9.1 1   27.    5.40  -999.0   99.0  -99.00  -99.00

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

**MODELOPTs: NonDFAULT CONC FLAT FASTALL URBAN

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AIS1 , AIS2 , CEN1 , CEN2 , CEN3 , "
DOC1 , DOC2 , "

*** NETWORK ID: NET1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 466691.00	466791.00	466891.00	466991.00	467091.00	467191.00	467291.00	467391.00	467491.00
3764694.00	0.00057	0.00067	0.00078	0.00089	0.00102	0.00115	0.00122	0.00114	0.00101
3764594.00	0.00071	0.00084	0.00099	0.00117	0.00137	0.00160	0.00172	0.00160	0.00141
3764494.00	0.00088	0.00108	0.00132	0.00160	0.00199	0.00243	0.00268	0.00255	0.00228
3764394.00	0.00118	0.00155	0.00198	0.00272	0.00396	0.00520	0.00615	0.00678	0.00610
3764294.00	0.00125	0.00174	0.00228	0.00330	0.00772	0.00932	0.01000	0.02097	0.00851
3764194.00	0.00115	0.00153	0.00209	0.00314	0.00679	0.01852	0.03558	0.02631	0.00826
3764094.00	0.00103	0.00134	0.00175	0.00237	0.00338	0.00640	0.00934	0.00895	0.00725
3763994.00	0.00090	0.00113	0.00142	0.00179	0.00231	0.00332	0.00423	0.00432	0.00447
3763894.00	0.00076	0.00094	0.00115	0.00142	0.00180	0.00235	0.00275	0.00291	0.00302
3763794.00	0.00065	0.00079	0.00096	0.00118	0.00147	0.00177	0.00200	0.00218	0.00224

```
*** AERMOD - VERSION  15181 ***   ***  13432 Center Street (v3)                                                    ***        06/06/16
*** AERMET - VERSION  14134 ***   ***                                                                        ***        00:05:36
                                                                                                                  PAGE  12
**MODELOPTs:   NonDFAULT CONC      FLAT      FASTALL   URBAN

                        *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                            INCLUDING SOURCE(S):     AIS1       , AIS2       , CEN1       , CEN2       , CEN3       , "
               DOC1       , DOC2       , "

                            *** NETWORK ID: NET1    ;  NETWORK TYPE: GRIDCART ***

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

  Y-COORD  |                                   X-COORD (METERS)
  (METERS) |    467591.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3764694.00 |      0.00090
 3764594.00 |      0.00127
 3764494.00 |      0.00200
 3764394.00 |      0.00421
 3764294.00 |      0.00759
 3764194.00 |      0.00517
 3764094.00 |      0.00502
 3763994.00 |      0.00395
 3763894.00 |      0.00282
 3763794.00 |      0.00212
```

```
*** AERMOD - VERSION  15181 ***   ***  13432 Center Street (v3)                                    ***       06/06/16
*** AERMET - VERSION  14134 ***   ***                                                         ***       00:05:36
                                                                                                    PAGE  13

**MODELOPTs:   NonDFAULT CONC     FLAT     FASTALL   URBAN

                   *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL     ***
                       INCLUDING SOURCE(S):     AIS1       , AIS2       , CEN1       , CEN2       , CEN3       , "
             DOC1       , DOC2       , "

                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                ** CONC OF PM      IN MICROGRAMS/M**3                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
467687.00	3764217.00	0.00433	466721.00	3764309.00	0.00146
467110.00	3763852.00	0.00172	467747.00	3764156.00	0.00323
467409.00	3764230.00	0.01766	467550.00	3764077.00	0.00563
467600.00	3764395.00	0.00400	466773.00	3764400.00	0.00143
466685.00	3764396.00	0.00114	467142.00	3764560.00	0.00169
467253.00	3764509.00	0.00241	467125.00	3764458.00	0.00257
466818.00	3764404.00	0.00156	466724.00	3764152.00	0.00121
466699.00	3764107.00	0.00107	466906.00	3764000.00	0.00149
467546.00	3763993.00	0.00421	467561.00	3763987.00	0.00403
467567.00	3763930.00	0.00325	467569.00	3763901.00	0.00294
467565.00	3763885.00	0.00280	467652.00	3764011.00	0.00365
467658.00	3763981.00	0.00334	467614.00	3763915.00	0.00294
467621.00	3763893.00	0.00272	467613.00	3763872.00	0.00258
467603.00	3763849.00	0.00243	467595.00	3763829.00	0.00232
467575.00	3763756.00	0.00195	467721.00	3763881.00	0.00230
467702.00	3763877.00	0.00234	467691.00	3763858.00	0.00226
467680.00	3763839.00	0.00218	467665.00	3763821.00	0.00211
467635.00	3763787.00	0.00200	467244.00	3763650.00	0.00130

```
*** AERMOD - VERSION  15181 ***   ***  13432 Center Street (v3)                                          ***       06/06/16
*** AERMET - VERSION  14134 ***   ***                                                                ***       00:05:36
                                                                                                          PAGE  14
**MODELOPTs:   NonDFAULT CONC     FLAT     FASTALL   URBAN

                                 *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***


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

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

"ALL      1ST HIGHEST VALUE IS      0.03558 AT (  467291.00,  3764194.00,    0.00,    0.00,   0.00)  GC  NET1   "
"         2ND HIGHEST VALUE IS      0.02631 AT (  467391.00,  3764194.00,    0.00,    0.00,   0.00)  GC  NET1   "
"         3RD HIGHEST VALUE IS      0.02097 AT (  467391.00,  3764294.00,    0.00,    0.00,   0.00)  GC  NET1   "
"         4TH HIGHEST VALUE IS      0.01852 AT (  467191.00,  3764194.00,    0.00,    0.00,   0.00)  GC  NET1   "
"         5TH HIGHEST VALUE IS      0.01766 AT (  467409.00,  3764230.00,    0.00,    0.00,   0.00)  DC         "
"         6TH HIGHEST VALUE IS      0.01000 AT (  467291.00,  3764294.00,    0.00,    0.00,   0.00)  GC  NET1   "
"         7TH HIGHEST VALUE IS      0.00934 AT (  467291.00,  3764094.00,    0.00,    0.00,   0.00)  GC  NET1   "
"         8TH HIGHEST VALUE IS      0.00932 AT (  467191.00,  3764294.00,    0.00,    0.00,   0.00)  GC  NET1   "
"         9TH HIGHEST VALUE IS      0.00895 AT (  467391.00,  3764094.00,    0.00,    0.00,   0.00)  GC  NET1   "
"        10TH HIGHEST VALUE IS      0.00851 AT (  467491.00,  3764294.00,    0.00,    0.00,   0.00)  GC  NET1   "

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

```
*** AERMOD - VERSION  15181 ***   ***  13432 Center Street (v3)                                    ***        06/06/16
*** AERMET - VERSION  14134 ***   ***                                                           ***        00:05:36
                                                                                                      PAGE  15
**MODELOPTs:   NonDFAULT CONC     FLAT     FASTALL   URBAN

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

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

A Total of          0 Fatal Error Message(s)
A Total of          0 Warning Message(s)
A Total of       2006 Informational Message(s)

A Total of      43848 Hours Were Processed

A Total of          7 Calm Hours Identified

A Total of       1999 Missing Hours Identified (  4.56 Percent)


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


   ********  WARNING MESSAGES  ********
            ***  NONE  ***


   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

HARP2 - HRACalc (dated 16088) 6/6/2016 12:26:32 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 25

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 25

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home

3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating cancer risk
Cancer risk saved to: C:\Users\cbrown\Google Drive\13432 Center Street\Final Submittal\HARP\13432_25YR_CancerRisk.csv
HRA ran successfully

**HARP - Health Risk Assessment Module v16057
**6/6/2016

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK
8	467409	3764230	9901	DieselExhPM	0.01766	1.09E-06	25YrCancerDerived	*	1.09E-06
9	467550	3764077	9901	DieselExhPM	0.00563	3.48E-07	25YrCancerDerived	*	3.48E-07
11	467687	3764217	9901	DieselExhPM	0.00433	2.68E-07	25YrCancerDerived	*	2.68E-07
10	467600	3764395	9901	DieselExhPM	0.004	2.48E-07	25YrCancerDerived	*	2.48E-07
12	467747	3764156	9901	DieselExhPM	0.00323	2.00E-07	25YrCancerDerived	*	2.00E-07
5	467125	3764458	9901	DieselExhPM	0.00257	1.59E-07	25YrCancerDerived	*	1.59E-07
7	467253	3764509	9901	DieselExhPM	0.00241	1.49E-07	25YrCancerDerived	*	1.49E-07
4	467110	3763852	9901	DieselExhPM	0.00172	1.06E-07	25YrCancerDerived	*	1.06E-07
6	467142	3764560	9901	DieselExhPM	0.00169	1.05E-07	25YrCancerDerived	*	1.05E-07
2	466721	3764309	9901	DieselExhPM	0.00146	9.04E-08	25YrCancerDerived	*	9.04E-08
3	466773	3764400	9901	DieselExhPM	0.00143	8.85E-08	25YrCancerDerived	*	8.85E-08
1	466685	3764396	9901	DieselExhPM	0.00114	7.06E-08	25YrCancerDerived	*	7.06E-08

SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0
0	0	INHALATION		0	0	0

Planning Commission - Exhibit 1 - Development Review Committee Staff Report
Development Review Committee - Exhibit 7 - CEQA Documents

HARP2 - HRACalc (dated 16088) 6/7/2016 6:33:04 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home

3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating cancer risk
Cancer risk saved to: C:\Users\cbrown\Google Drive\13432 Center Street\Final Submittal\HARP\13432_30YR_CancerRisk.csv
HRA ran successfully

**HARP - Health Risk Assessment Module v16057
**6/6/2016

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK
6	467546	3763993	9901	DieselExhPM	0.00421	2.87E-06	30YrCancerDerived	*	2.87E-06
7	467561	3763987	9901	DieselExhPM	0.00403	2.75E-06	30YrCancerDerived	*	2.75E-06
18	467652	3764011	9901	DieselExhPM	0.00365	2.49E-06	30YrCancerDerived	*	2.49E-06
19	467658	3763981	9901	DieselExhPM	0.00334	2.28E-06	30YrCancerDerived	*	2.28E-06
9	467567	3763930	9901	DieselExhPM	0.00325	2.22E-06	30YrCancerDerived	*	2.22E-06
10	467569	3763901	9901	DieselExhPM	0.00294	2.00E-06	30YrCancerDerived	*	2.00E-06
15	467614	3763915	9901	DieselExhPM	0.00294	2.00E-06	30YrCancerDerived	*	2.00E-06
8	467565	3763885	9901	DieselExhPM	0.0028	1.91E-06	30YrCancerDerived	*	1.91E-06
16	467621	3763893	9901	DieselExhPM	0.00272	1.85E-06	30YrCancerDerived	*	1.85E-06
14	467613	3763872	9901	DieselExhPM	0.00258	1.76E-06	30YrCancerDerived	*	1.76E-06
13	467603	3763849	9901	DieselExhPM	0.00243	1.66E-06	30YrCancerDerived	*	1.66E-06
23	467702	3763877	9901	DieselExhPM	0.00234	1.60E-06	30YrCancerDerived	*	1.60E-06
12	467595	3763829	9901	DieselExhPM	0.00232	1.58E-06	30YrCancerDerived	*	1.58E-06
24	467721	3763881	9901	DieselExhPM	0.0023	1.57E-06	30YrCancerDerived	*	1.57E-06
22	467691	3763858	9901	DieselExhPM	0.00226	1.54E-06	30YrCancerDerived	*	1.54E-06
21	467680	3763839	9901	DieselExhPM	0.00218	1.49E-06	30YrCancerDerived	*	1.49E-06
20	467665	3763821	9901	DieselExhPM	0.00211	1.44E-06	30YrCancerDerived	*	1.44E-06
17	467635	3763787	9901	DieselExhPM	0.002	1.36E-06	30YrCancerDerived	*	1.36E-06
11	467575	3763756	9901	DieselExhPM	0.00195	1.33E-06	30YrCancerDerived	*	1.33E-06
3	466818	3764404	9901	DieselExhPM	0.00156	1.06E-06	30YrCancerDerived	*	1.06E-06
4	466906	3764000	9901	DieselExhPM	0.00149	1.02E-06	30YrCancerDerived	*	1.02E-06
5	467244	3763650	9901	DieselExhPM	0.0013	8.86E-07	30YrCancerDerived	*	8.86E-07
2	466724	3764152	9901	DieselExhPM	0.00121	8.25E-07	30YrCancerDerived	*	8.25E-07
1	466699	3764107	9901	DieselExhPM	0.00107	7.30E-07	30YrCancerDerived	*	7.30E-07

SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

Planning Commission - Exhibit 1 - Development Review Committee Staff Report
Development Review Committee - Exhibit 7 - CEQA Documents

PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0
0	0	0	INHALATION		0	0	0

Planning Commission - Exhibit 1 - Development Review Committee Staff Report
Development Review Committee - Exhibit 7 - CEQA Documents

HARP2 - HRACalc (dated 16088) 6/6/2016 12:31:17 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Population
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 70

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 0
16 to 70 Years Bin: 54

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home

3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating cancer risk
Cancer risk saved to: C:\Users\cbrown\Google Drive\13432 Center Street\Final Submittal\HARP\13432_70YR_CancerRisk.csv
HRA ran successfully

**HARP - Health Risk Assessment Module v16057
**6/6/2016

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK
1	466691	3764694	9901	DieselExhPM	0.00057	5.09E-07	70YrCancerRMP	*	5.09E-07
2	466691	3764594	9901	DieselExhPM	0.00071	6.35E-07	70YrCancerRMP	*	6.35E-07
3	466691	3764494	9901	DieselExhPM	0.00088	7.86E-07	70YrCancerRMP	*	7.86E-07
4	466691	3764394	9901	DieselExhPM	0.00118	1.05E-06	70YrCancerRMP	*	1.05E-06
5	466691	3764294	9901	DieselExhPM	0.00125	1.12E-06	70YrCancerRMP	*	1.12E-06
6	466691	3764194	9901	DieselExhPM	0.00115	1.03E-06	70YrCancerRMP	*	1.03E-06
7	466691	3764094	9901	DieselExhPM	0.00103	9.21E-07	70YrCancerRMP	*	9.21E-07
8	466691	3763994	9901	DieselExhPM	0.0009	8.04E-07	70YrCancerRMP	*	8.04E-07
9	466691	3763894	9901	DieselExhPM	0.00076	6.79E-07	70YrCancerRMP	*	6.79E-07
10	466691	3763794	9901	DieselExhPM	0.00065	5.81E-07	70YrCancerRMP	*	5.81E-07
11	467591	3764694	9901	DieselExhPM	0.0009	8.04E-07	70YrCancerRMP	*	8.04E-07
12	467591	3764594	9901	DieselExhPM	0.00127	1.14E-06	70YrCancerRMP	*	1.14E-06
13	467591	3764494	9901	DieselExhPM	0.002	1.79E-06	70YrCancerRMP	*	1.79E-06
14	467591	3764394	9901	DieselExhPM	0.00421	3.76E-06	70YrCancerRMP	*	3.76E-06
15	467591	3764294	9901	DieselExhPM	0.00759	6.78E-06	70YrCancerRMP	*	6.78E-06
16	467591	3764194	9901	DieselExhPM	0.00517	4.62E-06	70YrCancerRMP	*	4.62E-06
17	467591	3764094	9901	DieselExhPM	0.00502	4.49E-06	70YrCancerRMP	*	4.49E-06
18	467591	3763994	9901	DieselExhPM	0.00395	3.53E-06	70YrCancerRMP	*	3.53E-06
19	467591	3763894	9901	DieselExhPM	0.00282	2.52E-06	70YrCancerRMP	*	2.52E-06
20	467591	3763794	9901	DieselExhPM	0.00212	1.89E-06	70YrCancerRMP	*	1.89E-06
21	466791	3764694	9901	DieselExhPM	0.00067	5.99E-07	70YrCancerRMP	*	5.99E-07
22	466791	3764594	9901	DieselExhPM	0.00084	7.51E-07	70YrCancerRMP	*	7.51E-07
23	466791	3764494	9901	DieselExhPM	0.00108	9.65E-07	70YrCancerRMP	*	9.65E-07
24	466791	3764394	9901	DieselExhPM	0.00155	1.39E-06	70YrCancerRMP	*	1.39E-06
25	466791	3764294	9901	DieselExhPM	0.00174	1.56E-06	70YrCancerRMP	*	1.56E-06
26	466791	3764194	9901	DieselExhPM	0.00153	1.37E-06	70YrCancerRMP	*	1.37E-06
27	466791	3764094	9901	DieselExhPM	0.00134	1.20E-06	70YrCancerRMP	*	1.20E-06
28	466791	3763994	9901	DieselExhPM	0.00113	1.01E-06	70YrCancerRMP	*	1.01E-06
29	466791	3763894	9901	DieselExhPM	0.00094	8.40E-07	70YrCancerRMP	*	8.40E-07
30	466791	3763794	9901	DieselExhPM	0.00079	7.06E-07	70YrCancerRMP	*	7.06E-07
31	466891	3764694	9901	DieselExhPM	0.00078	6.97E-07	70YrCancerRMP	*	6.97E-07
32	466891	3764594	9901	DieselExhPM	0.00099	8.85E-07	70YrCancerRMP	*	8.85E-07
33	466891	3764494	9901	DieselExhPM	0.00132	1.18E-06	70YrCancerRMP	*	1.18E-06
34	466891	3764394	9901	DieselExhPM	0.00198	1.77E-06	70YrCancerRMP	*	1.77E-06

35	466891	3764294	9901	DieselExhPM	0.00228	2.04E-06	70YrCancerRMP	*	2.04E-06
36	466891	3764194	9901	DieselExhPM	0.00209	1.87E-06	70YrCancerRMP	*	1.87E-06
37	466891	3764094	9901	DieselExhPM	0.00175	1.56E-06	70YrCancerRMP	*	1.56E-06
38	466891	3763994	9901	DieselExhPM	0.00142	1.27E-06	70YrCancerRMP	*	1.27E-06
39	466891	3763894	9901	DieselExhPM	0.00115	1.03E-06	70YrCancerRMP	*	1.03E-06
40	466891	3763794	9901	DieselExhPM	0.00096	8.58E-07	70YrCancerRMP	*	8.58E-07
41	466991	3764694	9901	DieselExhPM	0.00089	7.95E-07	70YrCancerRMP	*	7.95E-07
42	466991	3764594	9901	DieselExhPM	0.00117	1.05E-06	70YrCancerRMP	*	1.05E-06
43	466991	3764494	9901	DieselExhPM	0.0016	1.43E-06	70YrCancerRMP	*	1.43E-06
44	466991	3764394	9901	DieselExhPM	0.00272	2.43E-06	70YrCancerRMP	*	2.43E-06
45	466991	3764294	9901	DieselExhPM	0.0033	2.95E-06	70YrCancerRMP	*	2.95E-06
46	466991	3764194	9901	DieselExhPM	0.00314	2.81E-06	70YrCancerRMP	*	2.81E-06
47	466991	3764094	9901	DieselExhPM	0.00237	2.12E-06	70YrCancerRMP	*	2.12E-06
48	466991	3763994	9901	DieselExhPM	0.00179	1.60E-06	70YrCancerRMP	*	1.60E-06
49	466991	3763894	9901	DieselExhPM	0.00142	1.27E-06	70YrCancerRMP	*	1.27E-06
50	466991	3763794	9901	DieselExhPM	0.00118	1.05E-06	70YrCancerRMP	*	1.05E-06
51	467091	3764694	9901	DieselExhPM	0.00102	9.12E-07	70YrCancerRMP	*	9.12E-07
52	467091	3764594	9901	DieselExhPM	0.00137	1.22E-06	70YrCancerRMP	*	1.22E-06
53	467091	3764494	9901	DieselExhPM	0.00199	1.78E-06	70YrCancerRMP	*	1.78E-06
54	467091	3764394	9901	DieselExhPM	0.00396	3.54E-06	70YrCancerRMP	*	3.54E-06
55	467091	3764294	9901	DieselExhPM	0.00772	6.90E-06	70YrCancerRMP	*	6.90E-06
56	467091	3764194	9901	DieselExhPM	0.00679	6.07E-06	70YrCancerRMP	*	6.07E-06
57	467091	3764094	9901	DieselExhPM	0.00338	3.02E-06	70YrCancerRMP	*	3.02E-06
58	467091	3763994	9901	DieselExhPM	0.00231	2.06E-06	70YrCancerRMP	*	2.06E-06
59	467091	3763894	9901	DieselExhPM	0.0018	1.61E-06	70YrCancerRMP	*	1.61E-06
60	467091	3763794	9901	DieselExhPM	0.00147	1.31E-06	70YrCancerRMP	*	1.31E-06
61	467191	3764694	9901	DieselExhPM	0.00115	1.03E-06	70YrCancerRMP	*	1.03E-06
62	467191	3764594	9901	DieselExhPM	0.0016	1.43E-06	70YrCancerRMP	*	1.43E-06

63	467191	3764494	9901	DieselExhPM	0.00243	2.17E-06	70YrCancerRMP	*	2.17E-06
64	467191	3764394	9901	DieselExhPM	0.0052	4.65E-06	70YrCancerRMP	*	4.65E-06
65	467191	3764294	9901	DieselExhPM	0.00932	8.33E-06	70YrCancerRMP	*	8.33E-06
66	467191	3764194	9901	DieselExhPM	0.01852	1.66E-05	70YrCancerRMP	*	1.66E-05
67	467191	3764094	9901	DieselExhPM	0.0064	5.72E-06	70YrCancerRMP	*	5.72E-06
68	467191	3763994	9901	DieselExhPM	0.00332	2.97E-06	70YrCancerRMP	*	2.97E-06
69	467191	3763894	9901	DieselExhPM	0.00235	2.10E-06	70YrCancerRMP	*	2.10E-06
70	467191	3763794	9901	DieselExhPM	0.00177	1.58E-06	70YrCancerRMP	*	1.58E-06
71	467291	3764694	9901	DieselExhPM	0.00122	1.09E-06	70YrCancerRMP	*	1.09E-06
72	467291	3764594	9901	DieselExhPM	0.00172	1.54E-06	70YrCancerRMP	*	1.54E-06
73	467291	3764494	9901	DieselExhPM	0.00268	2.40E-06	70YrCancerRMP	*	2.40E-06
74	467291	3764394	9901	DieselExhPM	0.00615	5.50E-06	70YrCancerRMP	*	5.50E-06
75	467291	3764294	9901	DieselExhPM	0.01	8.94E-06	70YrCancerRMP	*	8.94E-06
76	467291	3764194	9901	DieselExhPM	0.03558	3.18E-05	70YrCancerRMP	*	3.18E-05
77	467291	3764094	9901	DieselExhPM	0.00934	8.35E-06	70YrCancerRMP	*	8.35E-06
78	467291	3763994	9901	DieselExhPM	0.00423	3.78E-06	70YrCancerRMP	*	3.78E-06
79	467291	3763894	9901	DieselExhPM	0.00275	2.46E-06	70YrCancerRMP	*	2.46E-06
80	467291	3763794	9901	DieselExhPM	0.002	1.79E-06	70YrCancerRMP	*	1.79E-06
81	467391	3764694	9901	DieselExhPM	0.00114	1.02E-06	70YrCancerRMP	*	1.02E-06
82	467391	3764594	9901	DieselExhPM	0.0016	1.43E-06	70YrCancerRMP	*	1.43E-06
83	467391	3764494	9901	DieselExhPM	0.00255	2.28E-06	70YrCancerRMP	*	2.28E-06
84	467391	3764394	9901	DieselExhPM	0.00678	6.06E-06	70YrCancerRMP	*	6.06E-06
85	467391	3764294	9901	DieselExhPM	0.02097	1.87E-05	70YrCancerRMP	*	1.87E-05
86	467391	3764194	9901	DieselExhPM	0.02631	2.35E-05	70YrCancerRMP	*	2.35E-05
87	467391	3764094	9901	DieselExhPM	0.00895	8.00E-06	70YrCancerRMP	*	8.00E-06
88	467391	3763994	9901	DieselExhPM	0.00432	3.86E-06	70YrCancerRMP	*	3.86E-06
89	467391	3763894	9901	DieselExhPM	0.00291	2.60E-06	70YrCancerRMP	*	2.60E-06
90	467391	3763794	9901	DieselExhPM	0.00218	1.95E-06	70YrCancerRMP	*	1.95E-06
91	467491	3764694	9901	DieselExhPM	0.00101	9.03E-07	70YrCancerRMP	*	9.03E-07
92	467491	3764594	9901	DieselExhPM	0.00141	1.26E-06	70YrCancerRMP	*	1.26E-06
93	467491	3764494	9901	DieselExhPM	0.00228	2.04E-06	70YrCancerRMP	*	2.04E-06
94	467491	3764394	9901	DieselExhPM	0.0061	5.45E-06	70YrCancerRMP	*	5.45E-06
95	467491	3764294	9901	DieselExhPM	0.00851	7.61E-06	70YrCancerRMP	*	7.61E-06
96	467491	3764194	9901	DieselExhPM	0.00826	7.38E-06	70YrCancerRMP	*	7.38E-06
97	467491	3764094	9901	DieselExhPM	0.00725	6.48E-06	70YrCancerRMP	*	6.48E-06
98	467491	3763994	9901	DieselExhPM	0.00447	3.99E-06	70YrCancerRMP	*	3.99E-06
99	467491	3763894	9901	DieselExhPM	0.00302	2.70E-06	70YrCancerRMP	*	2.70E-06
						3.34E-06			

SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK
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Export70YRCancerRisk662016

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CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
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Planning Commission - Exhibit 1 - Development Review Committee Staff Report
Development Review Committee - Exhibit 7 - CEQA Documents

HARP2 - HRACalc (dated 16088) 6/6/2016 3:59:46 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Population
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating chronic risk
Chronic risk saved to: C:\Users\cbrown\Google Drive\13432 Center Street\Final

Submittal\HARP\13432_CHR_NCChronicRisk.csv
HRA ran successfully

*HARP - HRACalc v16088 6/6/2016 3:59:46 PM - Chronic Risk

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN
76	467291	3764194	9901	DieselExhPM	0.03558	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
86	467391	3764194	9901	DieselExhPM	0.02631	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
85	467391	3764294	9901	DieselExhPM	0.02097	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
66	467191	3764194	9901	DieselExhPM	0.01852	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
112	467409	3764230	9901	DieselExhPM	0.01766	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
75	467291	3764294	9901	DieselExhPM	0.01	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
77	467291	3764094	9901	DieselExhPM	0.00934	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
65	467191	3764294	9901	DieselExhPM	0.00932	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
87	467391	3764094	9901	DieselExhPM	0.00895	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
95	467491	3764294	9901	DieselExhPM	0.00851	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
96	467491	3764194	9901	DieselExhPM	0.00826	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
55	467091	3764294	9901	DieselExhPM	0.00772	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
15	467591	3764294	9901	DieselExhPM	0.00759	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
97	467491	3764094	9901	DieselExhPM	0.00725	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
56	467091	3764194	9901	DieselExhPM	0.00679	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
84	467391	3764394	9901	DieselExhPM	0.00678	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
67	467191	3764094	9901	DieselExhPM	0.0064	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
74	467291	3764394	9901	DieselExhPM	0.00615	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
94	467491	3764394	9901	DieselExhPM	0.0061	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
114	467550	3764077	9901	DieselExhPM	0.00563	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
64	467191	3764394	9901	DieselExhPM	0.0052	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
16	467591	3764194	9901	DieselExhPM	0.00517	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
17	467591	3764094	9901	DieselExhPM	0.00502	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
98	467491	3763994	9901	DieselExhPM	0.00447	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
131	467687	3764217	9901	DieselExhPM	0.00433	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
88	467391	3763994	9901	DieselExhPM	0.00432	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
78	467291	3763994	9901	DieselExhPM	0.00423	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
14	467591	3764394	9901	DieselExhPM	0.00421	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
113	467546	3763993	9901	DieselExhPM	0.00421	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
115	467561	3763987	9901	DieselExhPM	0.00403	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
121	467600	3764395	9901	DieselExhPM	0.004	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
54	467091	3764394	9901	DieselExhPM	0.00396	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
18	467591	3763994	9901	DieselExhPM	0.00395	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
127	467652	3764011	9901	DieselExhPM	0.00365	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
57	467091	3764094	9901	DieselExhPM	0.00338	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
128	467658	3763981	9901	DieselExhPM	0.00334	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00

68	467191	3763994	9901	DieselExhPM	0.00332	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
45	466991	3764294	9901	DieselExhPM	0.0033	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
117	467567	3763930	9901	DieselExhPM	0.00325	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
135	467747	3764156	9901	DieselExhPM	0.00323	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
46	466991	3764194	9901	DieselExhPM	0.00314	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
99	467491	3763894	9901	DieselExhPM	0.00302	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
118	467569	3763901	9901	DieselExhPM	0.00294	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
124	467614	3763915	9901	DieselExhPM	0.00294	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
89	467391	3763894	9901	DieselExhPM	0.00291	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
19	467591	3763894	9901	DieselExhPM	0.00282	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
116	467565	3763885	9901	DieselExhPM	0.0028	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
79	467291	3763894	9901	DieselExhPM	0.00275	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
44	466991	3764394	9901	DieselExhPM	0.00272	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
125	467621	3763893	9901	DieselExhPM	0.00272	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
73	467291	3764494	9901	DieselExhPM	0.00268	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
123	467613	3763872	9901	DieselExhPM	0.00258	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
108	467125	3764458	9901	DieselExhPM	0.00257	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
83	467391	3764494	9901	DieselExhPM	0.00255	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
63	467191	3764494	9901	DieselExhPM	0.00243	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
122	467603	3763849	9901	DieselExhPM	0.00243	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
111	467253	3764509	9901	DieselExhPM	0.00241	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
47	466991	3764094	9901	DieselExhPM	0.00237	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
69	467191	3763894	9901	DieselExhPM	0.00235	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
133	467702	3763877	9901	DieselExhPM	0.00234	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
120	467595	3763829	9901	DieselExhPM	0.00232	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
58	467091	3763994	9901	DieselExhPM	0.00231	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
134	467721	3763881	9901	DieselExhPM	0.0023	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
35	466891	3764294	9901	DieselExhPM	0.00228	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
93	467491	3764494	9901	DieselExhPM	0.00228	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
132	467691	3763858	9901	DieselExhPM	0.00226	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
90	467391	3763794	9901	DieselExhPM	0.00218	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
130	467680	3763839	9901	DieselExhPM	0.00218	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
20	467591	3763794	9901	DieselExhPM	0.00212	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
129	467665	3763821	9901	DieselExhPM	0.00211	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
36	466891	3764194	9901	DieselExhPM	0.00209	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
13	467591	3764494	9901	DieselExhPM	0.002	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
80	467291	3763794	9901	DieselExhPM	0.002	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
126	467635	3763787	9901	DieselExhPM	0.002	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00

53	467091	3764494	9901	DieselExhPM	0.00199	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
34	466891	3764394	9901	DieselExhPM	0.00198	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
119	467575	3763756	9901	DieselExhPM	0.00195	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
59	467091	3763894	9901	DieselExhPM	0.0018	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
48	466991	3763994	9901	DieselExhPM	0.00179	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
70	467191	3763794	9901	DieselExhPM	0.00177	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
37	466891	3764094	9901	DieselExhPM	0.00175	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
25	466791	3764294	9901	DieselExhPM	0.00174	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
72	467291	3764594	9901	DieselExhPM	0.00172	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
107	467110	3763852	9901	DieselExhPM	0.00172	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
109	467142	3764560	9901	DieselExhPM	0.00169	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
43	466991	3764494	9901	DieselExhPM	0.0016	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
62	467191	3764594	9901	DieselExhPM	0.0016	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
82	467391	3764594	9901	DieselExhPM	0.0016	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
105	466818	3764404	9901	DieselExhPM	0.00156	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
24	466791	3764394	9901	DieselExhPM	0.00155	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
26	466791	3764194	9901	DieselExhPM	0.00153	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
106	466906	3764000	9901	DieselExhPM	0.00149	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
60	467091	3763794	9901	DieselExhPM	0.00147	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
102	466721	3764309	9901	DieselExhPM	0.00146	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
104	466773	3764400	9901	DieselExhPM	0.00143	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
38	466891	3763994	9901	DieselExhPM	0.00142	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
49	466991	3763894	9901	DieselExhPM	0.00142	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
92	467491	3764594	9901	DieselExhPM	0.00141	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
52	467091	3764594	9901	DieselExhPM	0.00137	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
27	466791	3764094	9901	DieselExhPM	0.00134	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
33	466891	3764494	9901	DieselExhPM	0.00132	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
110	467244	3763650	9901	DieselExhPM	0.0013	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
12	467591	3764594	9901	DieselExhPM	0.00127	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
5	466691	3764294	9901	DieselExhPM	0.00125	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
71	467291	3764694	9901	DieselExhPM	0.00122	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
103	466724	3764152	9901	DieselExhPM	0.00121	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
4	466691	3764394	9901	DieselExhPM	0.00118	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
50	466991	3763794	9901	DieselExhPM	0.00118	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
42	466991	3764594	9901	DieselExhPM	0.00117	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
6	466691	3764194	9901	DieselExhPM	0.00115	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
39	466891	3763894	9901	DieselExhPM	0.00115	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
61	467191	3764694	9901	DieselExhPM	0.00115	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00

81	467391	3764694	9901	DieselExhPM	0.00114	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
100	466685	3764396	9901	DieselExhPM	0.00114	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
28	466791	3763994	9901	DieselExhPM	0.00113	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
23	466791	3764494	9901	DieselExhPM	0.00108	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
101	466699	3764107	9901	DieselExhPM	0.00107	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
7	466691	3764094	9901	DieselExhPM	0.00103	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
51	467091	3764694	9901	DieselExhPM	0.00102	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
91	467491	3764694	9901	DieselExhPM	0.00101	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
32	466891	3764594	9901	DieselExhPM	0.00099	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
40	466891	3763794	9901	DieselExhPM	0.00096	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
29	466791	3763894	9901	DieselExhPM	0.00094	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
8	466691	3763994	9901	DieselExhPM	0.0009	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
11	467591	3764694	9901	DieselExhPM	0.0009	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
41	466991	3764694	9901	DieselExhPM	0.00089	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
3	466691	3764494	9901	DieselExhPM	0.00088	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
22	466791	3764594	9901	DieselExhPM	0.00084	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
30	466791	3763794	9901	DieselExhPM	0.00079	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
31	466891	3764694	9901	DieselExhPM	0.00078	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
9	466691	3763894	9901	DieselExhPM	0.00076	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
2	466691	3764594	9901	DieselExhPM	0.00071	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
21	466791	3764694	9901	DieselExhPM	0.00067	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
10	466691	3763794	9901	DieselExhPM	0.00065	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00
1	466691	3764694	9901	DieselExhPM	0.00057	NonCancerChronicDerived	0.00E+00	0.00E+00	0.00E+00

KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	7.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	6.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE
*	3.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	9.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	9.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	8.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	8.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	8.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	7.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	7.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	7.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	6.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	6.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	6.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	6.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	6.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	5.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	5.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	5.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	5.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	4.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	4.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	4.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	4.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	4.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	4.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	4.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	4.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	3.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	3.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	3.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	3.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	3.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*	3.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	3.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	3.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	3.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	3.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PIG_DOSE	CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00	

0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00 INHALATION	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATION	0.00E+00	0.00E+00	0.00E+00

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