

DOCKETED	
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Air Quality Data Request

Additional submitted attachment is included below.

APRIL 12, 2021

MOBILE SOURCE HEALTH RISK – YR2014

RECEPTOR ID: PMI 37.4230326377571, 121.928701731414

	Type	Risk
Cancer	Highway	46.597
	Major Street	1.529
	Rail	0.648
PM2.5	Highway	0.909
	Major Street	0.037
	Rail	0.001

RECEPTOR ID: MESR 37.4225072385361, 121.90639731508

	Type	Risk
Cancer	Highway	15.808
	Major Street	1.648
	Rail	0.493
PM2.5	Highway	0.333
	Major Street	0.039
	Rail	0.001

RECEPTOR ID: MEIW 37.4230326377571, 121.928701731414

	Type	Risk
Cancer	Highway	46.597
	Major Street	1.529
	Rail	0.648
PM2.5	Highway	0.909
	Major Street	0.037
	Rail	0.001

	Type	Risk
Cancer	Highway	15.178
	Major Street	2.193
	Rail	0.559
PM2.5	Highway	0.311
	Major Street	0.053
	Rail	0.001

METHOD/DATA

Cancer risk and PM2.5 were modeled in AERMOD for all highways/freeways and roadways >30,000 AADT (annual average daily traffic) and rail in 20 x 20 meter grid cells. The files incorporate AADT for that highway using EMFAC 2014 data for fleet mix and includes OEHHA's 2015 Air Toxics Hot Spots Guidance methods.

The Air District assigned vehicle counts on each link using information from the California Department of Transportation (Caltrans) and the Metropolitan Transportation Commission (MTC) for all roads with greater than 30,000 AADT. Traffic counts for state highways are from 2014 while surface streets AADT reflect 2015 counts when available, with older counts from 2010 through 2013 if data were missing. Sources of data used for the activity data are described below.

- State highway activity on the state highway system was represented using 2014 AADT counts from Caltrans. AADT values represent the total traffic volume for the year divided by 365 days, and these counts are reported for state highway segments defined using milepost values. Caltrans provides AADT data for total traffic and for trucks only, with trucks classified by axle number (the two-axle class excludes pickups and vans with only 4 tires).
- Daily traffic counts on surface streets were obtained from Metropolitan Transportation Commission (MTC) which receives roadway counts from local agencies as part of the Highway Performance Monitoring System (HPMS) with the exception of Santa Rosa, which posts the AADT on their web page.
- Year 2014 traffic volumes were forecast to 2017 using county-level growth factors from the California Air Resources Board's (ARB) EMFAC2014 mobile source emissions model. EMFAC2014 was run for all Bay Area counties for 2014, and vehicle miles of travel (VMT) output data were used to calculate the growth factors needed to project 2014 traffic volumes to 2017.

THRESHOLDS OF SIGNIFICANCE BASED ON CEQA GUIDANCE:

Local community risk and hazard impacts are associated with Toxic Air Contaminants (TACs) and fine particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less (PM_{2.5}) because emissions of these pollutants can have significant health impacts at the local level. If emissions of TACs or PM_{2.5} exceed any of the Thresholds of Significance, a project would result in a significant impact.

	SIGNIFICANCE THRESHOLD (CUMULATIVE)
CANCER	100 in a million
AMBIENT PM2.5	0.8 ug/m ³

Permitted Facilities

FID	OBJECTID	FACID	Name	Address	City	St	Zip	County	Cancer (per million)	Hazard	PM_2.5 (ug/m3)	Type	Latitude	Longitude	x	y
1511	1,511	13289	Los Esteros Critical Energy Facility	800 Thomas Foon Chew Way	San Jose	CA	95134	Santa Clara	63.63	0.4	122.75	Turbine (5), Fire Pump (1), Boiler (4), Cooling Tower (1)	37.426	-121.933	-1.4E+07	4498686
1538	1,538	13399	KLA Tencor	Technology Drive	Milpitas	CA	95035	Santa Clara	84.53	0.16	0.35	Generator (6), Solvent Cleaning (4), Boiler (3)	37.419	-121.93	-1.4E+07	4497664
1936	1,936	14171	Pacific Gas and Electric	66 Ranch Drive	Milpitas	CA	95035	Santa Clara			0.0029	Natural Gas Generator (2)	37.426	-121.925	-1.4E+07	4498636
5020	5,020	21154	Fairfield Development, LP	501 Murphy Ranch Rd	Milpitas	CA	95035	Santa Clara	0.32	0	0	Generators	37.418	-121.928	-1.4E+07	4497552
7955	7,955	111148	McCarthy Ranch Chevron & Carwash	367 Cypress Dr	Milpitas	CA	95035	Santa Clara	0.03	0	0	Gas Dispensing Facility	37.421	-121.922	-1.4E+07	4498016