

# Appendix B

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Air Quality, Greenhouse Gas, and  
Energy Model Calculations

**Milpitas Summary Tables**

**Operational Criteria Air Pollutants**

Proposed Gateway-Main Street Specific Plan Operations Table (daily ave)

Emissions Source	ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM <sub>10</sub> Exhaust (lb/day)	PM <sub>2.5</sub> Exhaust (lb/day)
Mobile	118.0	87.7	1043.0	1.3	1.2
Area	184.0	3.8	190.0	0.2	0.2
Energy	1.8	3.4	21.4	2.5	2.5
<b>Total Emissions</b>	<b>303.8</b>	<b>122.1</b>	<b>1254.4</b>	<b>4.0</b>	<b>3.9</b>
<b>Per service Population</b>	<b>0.0199</b>	<b>0.0056</b>	<b>0.0572</b>	<b>0.0002</b>	<b>0.0002</b>

Adopted Milpitas Midtown Specific Plan Operations Table (daily ave)

Emissions Source	ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM <sub>10</sub> Exhaust (lb/day)	PM <sub>2.5</sub> Exhaust (lb/day)
Mobile	94.2	93.8	1053.0	1.6	1.5
Area	188.0	2.5	179.0	0.3	0.2
Energy	2.3	4.1	28.9	2.2	3.2
<b>Total Emissions</b>	<b>284.5</b>	<b>100.4</b>	<b>1260.9</b>	<b>2.1</b>	<b>1.9</b>
<b>Emissions Per Pop</b>	<b>0.0199</b>	<b>0.0067</b>	<b>0.0681</b>	<b>0.0002</b>	<b>0.0002</b>

**Operational GHG Emissions**

Proposed Gateway-Main Street Specific Plan Annual GHG Emissions	
Emissions Sector	MTCO <sub>2e</sub>
Mobile Source	54,163
Area Sources	358
Energy	10,983
Water Consumption	1,368
Wastewater Treatment	1,895
Refrigerants	52
<b>Total Operational GHG Emissions</b>	<b>68,619</b>
<b>GHG Emissions per Service Population</b>	<b>3.13</b>

Adopted Milpitas Midtown Specific Plan Annual	
Emissions Sector	MTCO <sub>2e</sub>
Mobile Source	65,117
Area Sources	292
Energy	14,927
Water Consumption	1,506
Wastewater Treatment	1,948
Refrigerants	53
<b>Total Operational GHG Emissions</b>	<b>87,053</b>
<b>GHG Emissions per Service Population</b>	<b>4.25</b>

**Energy Summary**

Proposed Gateway-Main Street Specific Plan Energy Summary				
Source	Gas (gal)	Diesel (gal)	kwh	kBTU
Mobile Sources	5,688,744	1,463,371		
Electricity			49,292,572	
Natural Gas				119,870,521
Usage Per Service Population	258.55	66.74	2,248	5,467

Adopted Milpitas Midtown Specific Plan Energy Summary				
Source	Gas (gal)	Diesel (gal)	kwh	kBTU
Mobile Sources	7,248,350	1,871,142		
Electricity			70,920,025	
Natural Gas				156,176,855
Usage Per Service Population	354.17	91.43	3,465	7,631

Metric	Consumption	Units
VMT	195,800,600	Annual Miles
Trips Generated	20,703,895	Annual Trips
VMT per Service Population	8930	VMT/SP
Gallons of Gasoline	5,688,744	Gallons
Gallons of Diesel	1,463,371	Gallons
Gallons of Gasoline per Service Population	258.6	Gallons/SP
Gallons of Diesel per Service Population	66.7	Gallons/SP

Metric	Consumption	Units
VMT	250,360,800	Annual Miles
Trips Generated	13,782,035	Annual Trips
VMT per Service Population	12233	VMT/SP
Gallons of Gasoline	7,248,350	Gallons
Gallons of Diesel	1,871,142	Gallons
Gallons of Gasoline per Service Population	354.2	Gallons/SP
Gallons of Diesel per Service Population	91.4	Gallons/SP

Plan	VMT (Annual)	Service Population	Jobs	Annual VMT per population	ADT
Adopted Milpitas Midtown Specific Plan	250,360,800	20,466	5,540	26,197	37,759
Proposed Gateway-Main Street Specific Plan	195,800,600	21,925	7,223	15,94	56,723
Change	-54,560,200	1,459	1,683	-11,003	18,964
Percent Change	-21.8%	7.1%	30.4%	-42.0%	50.2%

## CALEEMOD INPUTS

### 1. Land Use

Proposed Gateway-Main Street Specific Plan					
Land Use Type	Units	Acres	SF	Landscape	Source
Single Family Homes	48		24	57025	GP Capacity Assumptions for MSP
High Rise Apartments	2771		87	2371909	
Condo Rise High	2357		107	2490491	
Office Park			113.1017971	880,397	
Heavy Industrial			109.9797157	1049258	
Library			76.94251414	129011.4	
parks			17.38251414	378591.2	

Total Non Residential SF	2058666.199
Total Units	5176
Total Acreage	535

### 2. VMT and trip gen and population

VMT	Daily VMT	Annual VMT	Source
Adopted Milpitas Midtown Specific Plan	685920	250360800	Fehr & Peers Traffic Impact Analysis
Proposed Gateway-Main Street Specific Plan	536440	195800600	Fehr & Peers Traffic Impact Analysis

Trip Generation	Annual Trips	Annual Trips	Source
Adopted Milpitas Midtown Specific Plan	37,759	13782035	CalEEMod Default
Proposed Gateway-Main Street Specific Plan	56,723	20703895	CalEEMod Default

Population	Buildout Year 2040	Source
Adopted Milpitas Midtown Specific Plan	20466	Fehr & Peers Traffic Impact Analysis
Proposed Gateway-Main Street Specific Plan	21925	Fehr & Peers Traffic Impact Analysis

Adopted Milpitas Midtown Specific Plan					
Land Use Type	Units	Acres	SF	Landscape	Source
Apt Low Rise	1773	97.02	1879380		GP Capacity Assumptions for MSP
Apt Mid Rise	2065	106.76	1982400		
Office Park		140.92	2,075,943		
Heavy Industrial		105.23	1090349		
Library		72.15	126948		
parks		12.59	274210.2		

Total Non Residential SF	3,293,240
Total Units	3838
Total Acreage	534.67

## Project Details

Current Project: Gateway-Main Street Specific Plan  
 Existing: Milpitas Midtown Specific Plan  
 Current Project is updating the adopted Milpitas Midtown Specific Plan

The Specific Plan proposes a new project area boundary which includes additional areas that currently have other designations in the General Plan Land Use Element and removes areas south of Great Mall Parkway that were included in the Midtown Plan.

Land Use Type	General Plan	Proposed Specific Plan	Change	Residential SF (GP)	Residential SF (Proposed)	Change
Residential	1,838 DU	5,176 DU	1,338 DU	4919425		-101881.0576
Non-Residential	3,293,240 SF	2,058,666 SF	-1,234,574 SF		4817544.319	

Adopted Milpitas Midtown Specific Plan Land Uses by District		
District	Land Use	Acreage
Abbott	Commercial	23.52330352
	Industrial	20.89207055
Creekside	Industrial	27.80115899
	Mixed Use	0.618903116
Crossroads	Commercial	25.62169579
	Mixed Use	26.0693422
Curtis	Multi Family Res	34.88312591
	Parks	3.617841724
Elmwood	Institutional	62.1556693
	Commercial	22.06336865
Gateway	Institutional	5.49989409
	Mixed Use	7.09150017
Library	Parks	2.858719917
	Institutional	4.352593148
Main Street	Mixed Use	31.98687463
	Multi Family Res	14.77267041
North Railyards	Parks	2.470819645
	Industrial	77.33924966
South Railyards	Multi Family Res	2.670058401
	Town Center	0.026523529
Transportation	Multi Family Res	51.5768425
	Transportation	19.29206289
Waterways	Waterways	11.57071557
	Commercial	1.029356176
West of Abel	Multi Family Res	33.17833374
	Parks	3.977779644
Total	Single Family Res	12.01506544
		528.9542847

Proposed Gateway-Main Street Specific Plan Land Uses by District		
District	Land Use	Acreage
Abbott	Commercial	43.39016505
	Parks	1.025213978
Creekside	Industrial	28.42096181
	Mixed Use	51.69103799
Crossroads	Multi Fam Res	34.88312591
	Parks	3.617841724
Curtis	Institutional	62.1556693
	Mixed Use	22.06336865
Elmwood	Parks	3.012890567
	Institutional	8.670412014
Gateway	Mixed Use	5.766952342
	Institutional	4.352593148
Library	mixed use	32.3509352
	Multi Fam Res	14.40860984
Main Street	Parks	2.470819645
	Industrial	77.36577319
North Railyards	parks	2.670058401
	Multi Family Res	51.5768425
South Railyards	Industrial	19.29206289
	Industrial	5.704301708
Waterways	Waterways	5.866413864
	Multi Family Res	30.74695406
West of Abel	Commercial	1.029356176
	Parks	4.920850768
Total	Single Family Res	13.50197401
		528.9542847

Changes		
District	Land Use	Acreege Change
Abbott	Commercial	19.86686152
	Industrial	-19.86686152
Creekside	Industrial	0.618903116
	Mixed Use	-0.618903116
Crossroads	Commercial	-25.62169579
	Mixed Use	25.62169579
Curtis	Multi Family Res	0
	Parks	0
Elmwood	Institutional	0
	Commercial	-22.06336865
Gateway	Mixed Use	22.06336865
	Institutional	1.170427924
Library	Mixed Use	-1.324598574
	Parks	0.15417065
Main Street	Institutional	0
	Mixed Use	0.364060571
North Railyards	Multi Family Res	-0.364060571
	Parks	0
South Railyards	Industrial	0.026523529
	Multi Family Res	0
Transportation	Town Center	-0.026523529
	Multi Family Res	0
Waterways	Transportation	-19.29206289
	Industrial	19.29206289
West of Abel	Waterways	-5.704301708
	Commercial	0
Total	Multi Family Res	-2.42997968
	Parks	0.943071114
Total	Single Family Res	1.486908567
		1.19687E-13

Adopted Milpitas Midtown Specific Plan Land Uses by Acreage	
Land Use	Acreage
Commercial	72.23772414
Industrial	126.0324838
Mixed Use (commercial)	65.76667085
Multi Family Res	137.079631
Parks	12.92516093
Institutional	72.00824654
Town Center	0.026523529
Transportation	19.29206289
Waterways	11.57071557
Single Family Residential	12.01506544
<b>Total</b>	<b>528.9542847</b>
Dwelling Units	3838
NON RES SF	3293240
total res	214.8613673

Proposed Gateway-Main Street Specific Plan Land Uses by Acreage	
Land Use	Acreage
Commercial	44.41952122
Industrial	130.7821996
Mixed Use	111.8722942
Multi Family Res	131.6155323
Parks	17.1787507
Institutional	73.17867446
Town Center	0
Transportation	0
Waterways	5.866413864
Single Family Residential	13.50197401
<b>Total</b>	<b>528.9542847</b>
Dwelling Units	5176
NON RES SF	2058666
total res	256.9898005

Changes			
Land Use	Acreage	% of total Non Res Change	Change is SF
Commercial	-27.81820291	-39%	-1105546.05
Industrial	4.749715746	-4%	-41091.37308
Mixed Use	46.10562332		
Multi Family Res	-5.464098652		
Parks	4.792514143		
Institutional	1.170427924	2%	2063.423166
Town Center	-0.026523529		
Transportation	-19.29206289		
Waterways	-5.704301708		
Single Family Res	1.486908567		
<b>Total</b>	<b>0</b>		
Dwelling Units	1338		
NON RES SF	1234574		-1234574
total res	42.12943323		
Non res	-18.27597303		

	Daily VMT	Annual VMT	Trips (daily)	Trips (annual)	Population	Daily VMT per Population	Annual VMT per Population
Cumulative	685,920	250,360,800	37,759	13,782,035	20466	33.51509821	12233
Cumulative + Project	536,440	195,800,600	56,723	20,703,895	21925	24.46704675	8930
Difference	-149,480	-54,560,200	18,964	6,921,860	1,459	-9	-3,303
Source:	Fehr and Peers	Calculated	Fehr and Peers	Calculated	Fehr and Peers	Calculated	Calculated

General Plan Assumptions for Midtown Specific Plan

General Plan* Use	Midtown Specific Plan Use	Density and Intensity	Total General Plan Acreage	Existing Housing Units	Net New Housing Units at Build-Out	Total Housing Units at Build-Out	Existing Non-Residential Area	Net New Non-Residential Area at Build-Out	Non-Residential Area at Build-Out
MFH - Multi-Family High Density	MFH - Multifamily Residential, High Density	12-20 units/acre (apts low rise)	32.17	674	5	679			0
VHD - Multi-Family Very High Density	VHD - Multifamily Residential, Very High Density	31-40 units/acre (apt mid rise)	106.76	1,593	472	2,065			0
MXD - Mixed Use	MXD - Mixed Use	21-30 units/acre; max. 0.75 FAR (Apt low rise)	64.85	134	958	1,092	631,808	487,595	1,119,403
GNC - General Commercial	C2 - General Commercial	max. 0.5 FAR	66.47			0	604,874	389,409	994,283
MFG - Manufacturing/Heavy Industrial	M2 - Heavy Industrial	max. 0.4 FAR	105.23	2		2	383,073	705,336	1,088,409
RSC - Neighborhood Commercial	C1 - Neighborhood Commercial	max. 0.35 FAR	9.6			0	109,999		109,999
INP - Industrial Park	MP - Industrial Park	max 1.0 FAR	0.73			0	1,940		1,940
PF - Public Facilities	I - Institutional	none	72.15			0	126,948		126,948
POS - Parks and Open Space	POS - Parks and Open Space		12.59			0			0
Right-of-Way	Right-of-Way		14.28			0			0
Water Way	Water Way		11.86			0			0
Non-Conforming VHD Use	Non-Conforming VHD Use					0	147,742	-147,742	-147,742
<b>Total</b>	<b>Total</b>		<b>496.69</b>	<b>2,403</b>	<b>1,435</b>	<b>3,838</b>	<b>1,858,642</b>	<b>1,434,598</b>	<b>3,293,240</b>
						<b>3,838</b>			<b>3,293,240</b>

\* Note: Based on Milpitas Midtown Specific Plan boundary

Mixed Use Assumptions:

64.85 Total acres  
 25 units per acre  
 1092 units  
 43.68 acres of residential  
 21.17 Acres of Commercial  
 168926.7792 SF of commercial

66.47 General Commercial Acreage  
 994,283 General Commercial SF  
 2895433.2 Acres to SF  
 34.3% SF of commercial as %

# Milpitas Proposed Gateway-Main Street Specific Plan Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Milpitas Proposed Gateway-Main Street Specific Plan
Operational Year	2040
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	31.0
Location	37.4293904108645, -121.89580436347518
County	Santa Clara
City	Milpitas
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1999
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.28

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	48.0	Dwelling Unit	24.0	57,025	342,526	—	144	—

Apartments High Rise	2,771	Dwelling Unit	87.0	2,371,909	—	—	8,285	—
Condo/Townhouse High Rise	2,357	Dwelling Unit	107	2,490,491	—	—	7,047	—
Office Park	880	1000sqft	113	880,397	—	—	—	—
General Heavy Industry	1,049	1000sqft	110	1,049,258	—	—	—	—
Library	129	1000sqft	76.9	129,001	—	—	—	—
City Park	17.4	Acre	17.4	0.00	378,591	378,591	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	349	331	165	1,598	3.89	8.12	378	386	7.97	95.9	104	4,403	474,929	479,332	462	14.9	486	495,827
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	303	288	176	1,100	3.66	7.83	378	386	7.75	95.9	104	4,403	452,914	457,317	463	16.1	316	473,996
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	317	304	122	1,255	3.39	3.97	371	375	3.86	94.0	97.8	4,403	393,513	397,916	462	15.5	386	414,456
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	57.8	55.4	22.3	229	0.62	0.73	67.7	68.4	0.70	17.2	17.9	729	65,150	65,880	76.4	2.56	64.0	68,618
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## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	132	122	79.5	1,170	3.35	1.28	378	380	1.20	95.9	97.1	—	341,194	341,194	9.78	11.4	175	345,009
Area	213	207	54.2	406	0.34	4.40	—	4.40	4.32	—	4.32	0.00	65,600	65,600	1.26	0.13	—	65,671
Energy	3.54	1.77	31.4	21.4	0.19	2.45	—	2.45	2.45	—	2.45	—	65,959	65,959	7.86	0.61	—	66,338
Water	—	—	—	—	—	—	—	—	—	—	—	1,132	2,176	3,308	116	2.80	—	7,054
Waste	—	—	—	—	—	—	—	—	—	—	—	3,271	0.00	3,271	327	0.00	—	11,445
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	311	311
Total	349	331	165	1,598	3.89	8.12	378	386	7.97	95.9	104	4,403	474,929	479,332	462	14.9	486	495,827
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	129	119	93.3	1,057	3.15	1.28	378	380	1.20	95.9	97.1	—	320,333	320,333	10.7	12.5	4.53	324,336
Area	170	167	50.8	21.6	0.32	4.11	—	4.11	4.11	—	4.11	0.00	64,447	64,447	1.21	0.12	—	64,514
Energy	3.54	1.77	31.4	21.4	0.19	2.45	—	2.45	2.45	—	2.45	—	65,959	65,959	7.86	0.61	—	66,338
Water	—	—	—	—	—	—	—	—	—	—	—	1,132	2,176	3,308	116	2.80	—	7,054
Waste	—	—	—	—	—	—	—	—	—	—	—	3,271	0.00	3,271	327	0.00	—	11,445
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	311	311
Total	303	288	176	1,100	3.66	7.83	378	386	7.75	95.9	104	4,403	452,914	457,317	463	16.1	316	473,996
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	128	118	87.7	1,043	3.18	1.28	371	372	1.20	94.0	95.2	—	323,221	323,221	10.3	12.1	75.4	327,148
Area	186	184	2.96	190	0.02	0.24	—	0.24	0.21	—	0.21	0.00	2,158	2,158	0.05	0.01	—	2,162
Energy	3.54	1.77	31.4	21.4	0.19	2.45	—	2.45	2.45	—	2.45	—	65,959	65,959	7.86	0.61	—	66,338

Water	—	—	—	—	—	—	—	—	—	—	—	1,132	2,176	3,308	116	2.80	—	7,054
Waste	—	—	—	—	—	—	—	—	—	—	—	3,271	0.00	3,271	327	0.00	—	11,445
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	311	311
Total	317	304	122	1,255	3.39	3.97	371	375	3.86	94.0	97.8	4,403	393,513	397,916	462	15.5	386	414,456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	23.3	21.5	16.0	190	0.58	0.23	67.7	67.9	0.22	17.2	17.4	—	53,513	53,513	1.71	2.00	12.5	54,163
Area	33.9	33.6	0.54	34.7	< 0.005	0.04	—	0.04	0.04	—	0.04	0.00	357	357	0.01	< 0.005	—	358
Energy	0.65	0.32	5.74	3.91	0.04	0.45	—	0.45	0.45	—	0.45	—	10,920	10,920	1.30	0.10	—	10,983
Water	—	—	—	—	—	—	—	—	—	—	—	187	360	548	19.3	0.46	—	1,168
Waste	—	—	—	—	—	—	—	—	—	—	—	542	0.00	542	54.1	0.00	—	1,895
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.5	51.5
Total	57.8	55.4	22.3	229	0.62	0.73	67.7	68.4	0.70	17.2	17.9	729	65,150	65,880	76.4	2.56	64.0	68,618

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

### 4.2. Energy

#### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.03	< 0.005	—	168
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	5,283	5,283	0.85	0.10	—	5,335
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	4,494	4,494	0.73	0.09	—	4,538
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	10,415	10,415	1.68	0.20	—	10,518
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	6,398	6,398	1.03	0.13	—	6,461
Library	—	—	—	—	—	—	—	—	—	—	—	—	787	787	0.13	0.02	—	794
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	27,542	27,542	4.46	0.54	—	27,814
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.03	< 0.005	—	168
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	5,283	5,283	0.85	0.10	—	5,335
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	4,494	4,494	0.73	0.09	—	4,538
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	10,415	10,415	1.68	0.20	—	10,518



General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	6,398	6,398	1.03	0.13	—	6,461
Library	—	—	—	—	—	—	—	—	—	—	—	—	787	787	0.13	0.02	—	794
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	27,542	27,542	4.46	0.54	—	27,814
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	875	875	0.14	0.02	—	883
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	744	744	0.12	0.01	—	751
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	1,724	1,724	0.28	0.03	—	1,741
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	1,059	1,059	0.17	0.02	—	1,070
Library	—	—	—	—	—	—	—	—	—	—	—	—	130	130	0.02	< 0.005	—	132
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,560	4,560	0.74	0.09	—	4,605

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.07	0.03	0.56	0.24	< 0.005	0.05	—	0.05	0.05	—	0.05	—	711	711	0.06	< 0.005	—	713
Apartments High Rise	0.72	0.36	6.16	2.62	0.04	0.50	—	0.50	0.50	—	0.50	—	7,819	7,819	0.69	0.01	—	7,840
Condo/Townhouse High Rise	0.61	0.31	5.24	2.23	0.03	0.42	—	0.42	0.42	—	0.42	—	6,650	6,650	0.59	0.01	—	6,669
Office Park	0.62	0.31	5.62	4.72	0.03	0.43	—	0.43	0.43	—	0.43	—	6,701	6,701	0.59	0.01	—	6,720
General Heavy Industry	1.36	0.68	12.3	10.4	0.07	0.94	—	0.94	0.94	—	0.94	—	14,725	14,725	1.30	0.03	—	14,766
Library	0.17	0.08	1.52	1.27	0.01	0.12	—	0.12	0.12	—	0.12	—	1,810	1,810	0.16	< 0.005	—	1,815
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	3.54	1.77	31.4	21.4	0.19	2.45	—	2.45	2.45	—	2.45	—	38,417	38,417	3.40	0.07	—	38,523
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.07	0.03	0.56	0.24	< 0.005	0.05	—	0.05	0.05	—	0.05	—	711	711	0.06	< 0.005	—	713
Apartments High Rise	0.72	0.36	6.16	2.62	0.04	0.50	—	0.50	0.50	—	0.50	—	7,819	7,819	0.69	0.01	—	7,840

Milpitas Proposed Gateway-Main Street Specific Plan Detailed Report, 11/11/2024

Condo/Townhouse High Rise	0.61	0.31	5.24	2.23	0.03	0.42	—	0.42	0.42	—	0.42	—	6,650	6,650	0.59	0.01	—	6,669
Office Park	0.62	0.31	5.62	4.72	0.03	0.43	—	0.43	0.43	—	0.43	—	6,701	6,701	0.59	0.01	—	6,720
General Heavy Industry	1.36	0.68	12.3	10.4	0.07	0.94	—	0.94	0.94	—	0.94	—	14,725	14,725	1.30	0.03	—	14,766
Library	0.17	0.08	1.52	1.27	0.01	0.12	—	0.12	0.12	—	0.12	—	1,810	1,810	0.16	< 0.005	—	1,815
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	3.54	1.77	31.4	21.4	0.19	2.45	—	2.45	2.45	—	2.45	—	38,417	38,417	3.40	0.07	—	38,523
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.01	0.01	0.10	0.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	118	118	0.01	< 0.005	—	118
Apartments High Rise	0.13	0.07	1.12	0.48	0.01	0.09	—	0.09	0.09	—	0.09	—	1,294	1,294	0.11	< 0.005	—	1,298
Condo/Townhouse High Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,101	1,101	0.10	< 0.005	—	1,104
Office Park	0.11	0.06	1.02	0.86	0.01	0.08	—	0.08	0.08	—	0.08	—	1,109	1,109	0.10	< 0.005	—	1,113
General Heavy Industry	0.25	0.12	2.25	1.89	0.01	0.17	—	0.17	0.17	—	0.17	—	2,438	2,438	0.22	< 0.005	—	2,445
Library	0.03	0.02	0.28	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	300	300	0.03	< 0.005	—	301
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.65	0.32	5.74	3.91	0.04	0.45	—	0.45	0.45	—	0.45	—	6,360	6,360	0.56	0.01	—	6,378

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	5.94	2.97	50.8	21.6	0.32	4.11	—	4.11	4.11	—	4.11	0.00	64,447	64,447	1.21	0.12	—	64,514
Consumer Products	150	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	13.9	13.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	42.9	40.2	3.46	385	0.02	0.29	—	0.29	0.22	—	0.22	—	1,153	1,153	0.05	0.01	—	1,157
Total	213	207	54.2	406	0.34	4.40	—	4.40	4.32	—	4.32	0.00	65,600	65,600	1.26	0.13	—	65,671
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	5.94	2.97	50.8	21.6	0.32	4.11	—	4.11	4.11	—	4.11	0.00	64,447	64,447	1.21	0.12	—	64,514
Consumer Products	150	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	13.9	13.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	170	167	50.8	21.6	0.32	4.11	—	4.11	4.11	—	4.11	0.00	64,447	64,447	1.21	0.12	—	64,514

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.03	0.01	0.23	0.10	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	263	263	< 0.005	< 0.005	—	263
Consumer Products	27.4	27.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.53	2.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.86	3.62	0.31	34.6	< 0.005	0.03	—	0.03	0.02	—	0.02	—	94.2	94.2	< 0.005	< 0.005	—	94.5
Total	33.9	33.6	0.54	34.7	< 0.005	0.04	—	0.04	0.04	—	0.04	0.00	357	357	0.01	< 0.005	—	358

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.34	18.6	22.0	0.35	0.01	—	33.1
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	193	364	556	19.8	0.48	—	1,193

Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	164	309	473	16.8	0.41	—	1,015
Office Park	—	—	—	—	—	—	—	—	—	—	—	300	566	866	30.8	0.74	—	1,858
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	465	878	1,343	47.8	1.15	—	2,881
Library	—	—	—	—	—	—	—	—	—	—	—	7.73	14.6	22.3	0.80	0.02	—	47.9
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	24.8	24.8	< 0.005	< 0.005	—	25.0
Total	—	—	—	—	—	—	—	—	—	—	—	1,132	2,176	3,308	116	2.80	—	7,054
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.34	18.6	22.0	0.35	0.01	—	33.1
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	193	364	556	19.8	0.48	—	1,193
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	164	309	473	16.8	0.41	—	1,015
Office Park	—	—	—	—	—	—	—	—	—	—	—	300	566	866	30.8	0.74	—	1,858
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	465	878	1,343	47.8	1.15	—	2,881
Library	—	—	—	—	—	—	—	—	—	—	—	7.73	14.6	22.3	0.80	0.02	—	47.9
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	24.8	24.8	< 0.005	< 0.005	—	25.0

Total	—	—	—	—	—	—	—	—	—	—	—	1,132	2,176	3,308	116	2.80	—	7,054
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.55	3.09	3.64	0.06	< 0.005	—	5.49
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	31.9	60.2	92.1	3.28	0.08	—	198
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	27.1	51.2	78.3	2.79	0.07	—	168
Office Park	—	—	—	—	—	—	—	—	—	—	—	49.6	93.8	143	5.11	0.12	—	308
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	77.0	145	222	7.92	0.19	—	477
Library	—	—	—	—	—	—	—	—	—	—	—	1.28	2.42	3.70	0.13	< 0.005	—	7.94
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	4.11	4.11	< 0.005	< 0.005	—	4.15
Total	—	—	—	—	—	—	—	—	—	—	—	187	360	548	19.3	0.46	—	1,168

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	20.3	0.00	20.3	2.03	0.00	—	70.9
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	1,104	0.00	1,104	110	0.00	—	3,863
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	939	0.00	939	93.9	0.00	—	3,286
Office Park	—	—	—	—	—	—	—	—	—	—	—	441	0.00	441	44.1	0.00	—	1,544
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	701	0.00	701	70.1	0.00	—	2,453
Library	—	—	—	—	—	—	—	—	—	—	—	64.0	0.00	64.0	6.40	0.00	—	224
City Park	—	—	—	—	—	—	—	—	—	—	—	0.81	0.00	0.81	0.08	0.00	—	2.82
Total	—	—	—	—	—	—	—	—	—	—	—	3,271	0.00	3,271	327	0.00	—	11,445
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	20.3	0.00	20.3	2.03	0.00	—	70.9
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	1,104	0.00	1,104	110	0.00	—	3,863
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	939	0.00	939	93.9	0.00	—	3,286
Office Park	—	—	—	—	—	—	—	—	—	—	—	441	0.00	441	44.1	0.00	—	1,544



General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	701	0.00	701	70.1	0.00	—	2,453
Library	—	—	—	—	—	—	—	—	—	—	—	64.0	0.00	64.0	6.40	0.00	—	224
City Park	—	—	—	—	—	—	—	—	—	—	—	0.81	0.00	0.81	0.08	0.00	—	2.82
Total	—	—	—	—	—	—	—	—	—	—	—	3,271	0.00	3,271	327	0.00	—	11,445
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.36	0.00	3.36	0.34	0.00	—	11.7
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	183	0.00	183	18.3	0.00	—	640
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	156	0.00	156	15.5	0.00	—	544
Office Park	—	—	—	—	—	—	—	—	—	—	—	73.1	0.00	73.1	7.30	0.00	—	256
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	116	0.00	116	11.6	0.00	—	406
Library	—	—	—	—	—	—	—	—	—	—	—	10.6	0.00	10.6	1.06	0.00	—	37.1
City Park	—	—	—	—	—	—	—	—	—	—	—	0.13	0.00	0.13	0.01	0.00	—	0.47
Total	—	—	—	—	—	—	—	—	—	—	—	542	0.00	542	54.1	0.00	—	1,895

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.41	0.41
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17.0	17.0
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17.8	17.8
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.14	2.14
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Library	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.50	0.50
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	311	311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.41	0.41
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17.0	17.0

Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17.8	17.8
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.14	2.14
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Library	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.50	0.50
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	311	311
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.81	2.81
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.95	2.95
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35	0.35
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.2	45.2
Library	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.5	51.5

4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetati on	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	56,723	56,723	56,723	20,703,895	536,440	536,440	536,440	195,800,600

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	10
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	38
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	1413
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1358
Conventional Wood Stoves	0
Catalytic Wood Stoves	0



Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Condo/Townhouse High Rise	—
Wood Fireplaces	0
Gas Fireplaces	1202
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1155
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
9961835.625	3,320,612	3,144,773	1,048,258	—

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
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Single Family Housing	296,873	204	0.0330	0.0040	2,218,652
Apartments High Rise	9,453,130	204	0.0330	0.0040	24,396,081
Condo/Townhouse High Rise	8,040,790	204	0.0330	0.0040	20,751,196
Office Park	18,636,801	204	0.0330	0.0040	20,909,684
General Heavy Industry	11,447,558	204	0.0330	0.0040	45,946,070
Library	1,407,420	204	0.0330	0.0040	5,648,838
City Park	0.00	204	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	1,740,787	4,475,472
Apartments High Rise	100,494,194	0.00
Condo/Townhouse High Rise	85,479,905	0.00
Office Park	156,476,259	0.00
General Heavy Industry	242,640,913	0.00
Library	4,036,300	0.00
City Park	0.00	8,994,004

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	37.6	—
Apartments High Rise	2,049	—
Condo/Townhouse High Rise	1,743	—
Office Park	819	—

General Heavy Industry	1,301	—
Library	119	—
City Park	1.49	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Condo/Townhouse High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
General Heavy Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

Library	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Library	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Library	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Library	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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## 5.17. User Defined

Equipment Type	Fuel Type
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## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.4	annual days of extreme heat
Extreme Precipitation	2.60	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	1	1	2
Sea Level Rise	1	1	1	2

Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	17.6
AQ-PM	21.2
AQ-DPM	86.5
Drinking Water	23.5
Lead Risk Housing	8.49
Pesticides	0.00
Toxic Releases	36.1
Traffic	79.1
Effect Indicators	—
CleanUp Sites	99.6
Groundwater	98.7

Haz Waste Facilities/Generators	96.8
Impaired Water Bodies	33.2
Solid Waste	0.00
Sensitive Population	—
Asthma	18.9
Cardio-vascular	32.6
Low Birth Weights	67.2
Socioeconomic Factor Indicators	—
Education	54.8
Housing	19.4
Linguistic	80.7
Poverty	19.6
Unemployment	5.57

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	69.04914667
Employed	6.274862056
Median HI	88.02771718
Education	—
Bachelor's or higher	84.30642885
High school enrollment	100
Preschool enrollment	86.26972924
Transportation	—
Auto Access	29.74464263
Active commuting	46.63159245



Social	—
2-parent households	57.97510586
Voting	55.67817272
Neighborhood	—
Alcohol availability	37.71333248
Park access	15.29577826
Retail density	87.11664314
Supermarket access	64.94289747
Tree canopy	36.21198511
Housing	—
Homeownership	46.24663159
Housing habitability	78.41652765
Low-inc homeowner severe housing cost burden	73.03990761
Low-inc renter severe housing cost burden	88.81047094
Uncrowded housing	52.91928654
Health Outcomes	—
Insured adults	92.73707173
Arthritis	99.0
Asthma ER Admissions	86.7
High Blood Pressure	98.3
Cancer (excluding skin)	98.2
Asthma	98.6
Coronary Heart Disease	99.0
Chronic Obstructive Pulmonary Disease	99.3
Diagnosed Diabetes	97.0
Life Expectancy at Birth	88.5
Cognitively Disabled	98.7
Physically Disabled	98.7

Heart Attack ER Admissions	63.5
Mental Health Not Good	92.6
Chronic Kidney Disease	98.6
Obesity	97.2
Pedestrian Injuries	19.6
Physical Health Not Good	98.5
Stroke	98.8
Health Risk Behaviors	—
Binge Drinking	38.6
Current Smoker	85.1
No Leisure Time for Physical Activity	79.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	83.5
Children	16.3
Elderly	88.2
English Speaking	27.9
Foreign-born	87.8
Outdoor Workers	73.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	10.1
Traffic Density	74.5
Traffic Access	87.4
Other Indices	—
Hardship	15.7
Other Decision Support	—
2016 Voting	55.7

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	41.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	From changes in the GP Capacity Assumptions
Operations: Architectural Coatings	BAAQMD VOC Limit of 50 g/l for interior and 100 g/L for exterior
Operations: Water and Waste Water	No specified water usage

# Milpitas Adopted Milpitas Midtown Specific Plan Detailed Report

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8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Milpitas Adopted Milpitas Midtown Specific Plan
Operational Year	2040
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	31.0
Location	37.42693310950128, -121.89802584520064
County	Santa Clara
City	Milpitas
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1999
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.28

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	1,773	Dwelling Unit	97.0	1,879,380	—	—	5,301	—

Apartments Mid Rise	2,065	Dwelling Unit	107	1,982,400	—	—	6,174	—
Office Park	2,076	1000sqft	141	2,075,943	—	—	—	—
General Heavy Industry	1,090	1000sqft	105	1,090,349	—	—	—	—
Library	127	1000sqft	72.2	126,948	—	—	—	—
City Park	12.6	Acre	12.6	0.00	274,210	274,210	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	331	312	167	1,783	4.75	8.17	484	492	7.98	123	131	4,827	573,042	577,869	508	17.3	540	596,284
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	283	267	179	1,223	4.47	7.82	484	491	7.72	123	130	4,827	545,086	549,912	509	18.5	323	568,473
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	300	285	137	1,393	4.28	5.00	474	479	4.86	120	125	4,827	502,510	507,336	508	18.0	413	525,793
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	54.8	52.0	25.1	254	0.78	0.91	86.5	87.4	0.89	21.9	22.8	799	83,196	83,995	84.1	2.97	68.5	87,051

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	109	97.7	84.9	1,376	4.24	1.56	484	485	1.46	123	124	—	431,317	431,317	9.89	12.7	223	435,585
Area	217	212	41.1	378	0.26	3.41	—	3.41	3.33	—	3.33	0.00	49,255	49,255	0.95	0.10	—	49,308
Energy	4.61	2.31	41.1	28.9	0.25	3.19	—	3.19	3.19	—	3.19	—	89,687	89,687	10.8	0.87	—	90,217
Water	—	—	—	—	—	—	—	—	—	—	—	1,465	2,784	4,248	151	3.62	—	9,093
Waste	—	—	—	—	—	—	—	—	—	—	—	3,362	0.00	3,362	336	0.00	—	11,763
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	317	317
Total	331	312	167	1,783	4.75	8.17	484	492	7.98	123	131	4,827	573,042	577,869	508	17.3	540	596,284
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	106	94.8	99.8	1,178	3.98	1.56	484	485	1.46	123	124	—	404,532	404,532	10.4	13.9	5.79	408,949
Area	172	170	37.9	16.1	0.24	3.06	—	3.06	3.06	—	3.06	0.00	48,083	48,083	0.91	0.09	—	48,133
Energy	4.61	2.31	41.1	28.9	0.25	3.19	—	3.19	3.19	—	3.19	—	89,687	89,687	10.8	0.87	—	90,217
Water	—	—	—	—	—	—	—	—	—	—	—	1,465	2,784	4,248	151	3.62	—	9,093
Waste	—	—	—	—	—	—	—	—	—	—	—	3,362	0.00	3,362	336	0.00	—	11,763
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	317	317
Total	283	267	179	1,223	4.47	7.82	484	491	7.72	123	130	4,827	545,086	549,912	509	18.5	323	568,473
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	106	94.2	93.8	1,185	4.01	1.56	474	476	1.46	120	122	—	408,276	408,276	10.1	13.5	96.5	412,636
Area	190	188	2.52	179	0.01	0.25	—	0.25	0.21	—	0.21	0.00	1,763	1,763	0.05	0.01	—	1,766
Energy	4.61	2.31	41.1	28.9	0.25	3.19	—	3.19	3.19	—	3.19	—	89,687	89,687	10.8	0.87	—	90,217
Water	—	—	—	—	—	—	—	—	—	—	—	1,465	2,784	4,248	151	3.62	—	9,093
Waste	—	—	—	—	—	—	—	—	—	—	—	3,362	0.00	3,362	336	0.00	—	11,763

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	317	317
Total	300	285	137	1,393	4.28	5.00	474	479	4.86	120	125	4,827	502,510	507,336	508	18.0	413	525,793
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	19.3	17.2	17.1	216	0.73	0.29	86.5	86.8	0.27	21.9	22.2	—	67,595	67,595	1.68	2.23	16.0	68,317
Area	34.7	34.4	0.46	32.7	< 0.005	0.05	—	0.05	0.04	—	0.04	0.00	292	292	0.01	< 0.005	—	292
Energy	0.84	0.42	7.50	5.28	0.05	0.58	—	0.58	0.58	—	0.58	—	14,849	14,849	1.79	0.14	—	14,937
Water	—	—	—	—	—	—	—	—	—	—	—	242	461	703	24.9	0.60	—	1,506
Waste	—	—	—	—	—	—	—	—	—	—	—	557	0.00	557	55.6	0.00	—	1,948
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.5	52.5
Total	54.8	52.0	25.1	254	0.78	0.91	86.5	87.4	0.89	21.9	22.8	799	83,196	83,995	84.1	2.97	68.5	87,051

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

### 4.2. Energy

#### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,716	3,716	0.60	0.07	—	3,753

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,937	3,937	0.64	0.08	—	3,976
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	24,559	24,559	3.97	0.48	—	24,802
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	6,648	6,648	1.08	0.13	—	6,714
Library	—	—	—	—	—	—	—	—	—	—	—	—	774	774	0.13	0.02	—	782
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	39,634	39,634	6.41	0.78	—	40,026
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,716	3,716	0.60	0.07	—	3,753
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,937	3,937	0.64	0.08	—	3,976
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	24,559	24,559	3.97	0.48	—	24,802
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	6,648	6,648	1.08	0.13	—	6,714
Library	—	—	—	—	—	—	—	—	—	—	—	—	774	774	0.13	0.02	—	782
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	39,634	39,634	6.41	0.78	—	40,026
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	615	615	0.10	0.01	—	621

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	652	652	0.11	0.01	—	658
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	4,066	4,066	0.66	0.08	—	4,106
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	1,101	1,101	0.18	0.02	—	1,112
Library	—	—	—	—	—	—	—	—	—	—	—	—	128	128	0.02	< 0.005	—	129
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,562	6,562	1.06	0.13	—	6,627

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	1.05	0.52	8.93	3.80	0.06	0.72	—	0.72	0.72	—	0.72	—	11,341	11,341	1.00	0.02	—	11,373	
Apartments Mid Rise	0.54	0.27	4.59	1.95	0.03	0.37	—	0.37	0.37	—	0.37	—	5,827	5,827	0.52	0.01	—	5,843	
Office Park	1.46	0.73	13.2	11.1	0.08	1.01	—	1.01	1.01	—	1.01	—	15,801	15,801	1.40	0.03	—	15,845	
General Heavy Industry	1.41	0.71	12.8	10.8	0.08	0.97	—	0.97	0.97	—	0.97	—	15,302	15,302	1.35	0.03	—	15,344	
Library	0.16	0.08	1.49	1.25	0.01	0.11	—	0.11	0.11	—	0.11	—	1,782	1,782	0.16	< 0.005	—	1,786	
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00	
Total	4.61	2.31	41.1	28.9	0.25	3.19	—	3.19	3.19	—	3.19	—	50,052	50,052	4.43	0.09	—	50,191	

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	1.05	0.52	8.93	3.80	0.06	0.72	—	0.72	0.72	—	0.72	—	11,341	11,341	1.00	0.02	—	11,373
Apartments Mid Rise	0.54	0.27	4.59	1.95	0.03	0.37	—	0.37	0.37	—	0.37	—	5,827	5,827	0.52	0.01	—	5,843
Office Park	1.46	0.73	13.2	11.1	0.08	1.01	—	1.01	1.01	—	1.01	—	15,801	15,801	1.40	0.03	—	15,845
General Heavy Industry	1.41	0.71	12.8	10.8	0.08	0.97	—	0.97	0.97	—	0.97	—	15,302	15,302	1.35	0.03	—	15,344
Library	0.16	0.08	1.49	1.25	0.01	0.11	—	0.11	0.11	—	0.11	—	1,782	1,782	0.16	< 0.005	—	1,786
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	4.61	2.31	41.1	28.9	0.25	3.19	—	3.19	3.19	—	3.19	—	50,052	50,052	4.43	0.09	—	50,191
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.19	0.10	1.63	0.69	0.01	0.13	—	0.13	0.13	—	0.13	—	1,878	1,878	0.17	< 0.005	—	1,883
Apartments Mid Rise	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	965	965	0.09	< 0.005	—	967
Office Park	0.27	0.13	2.42	2.03	0.01	0.18	—	0.18	0.18	—	0.18	—	2,616	2,616	0.23	< 0.005	—	2,623
General Heavy Industry	0.26	0.13	2.34	1.97	0.01	0.18	—	0.18	0.18	—	0.18	—	2,533	2,533	0.22	< 0.005	—	2,540
Library	0.03	0.01	0.27	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	295	295	0.03	< 0.005	—	296
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.84	0.42	7.50	5.28	0.05	0.58	—	0.58	0.58	—	0.58	—	8,287	8,287	0.73	0.02	—	8,310

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.43	2.22	37.9	16.1	0.24	3.06	—	3.06	3.06	—	3.06	0.00	48,083	48,083	0.91	0.09	—	48,133
Consumer Products	154	154	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	13.6	13.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	45.5	42.4	3.21	362	0.02	0.35	—	0.35	0.27	—	0.27	—	1,171	1,171	0.05	0.01	—	1,175
Total	217	212	41.1	378	0.26	3.41	—	3.41	3.33	—	3.33	0.00	49,255	49,255	0.95	0.10	—	49,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.43	2.22	37.9	16.1	0.24	3.06	—	3.06	3.06	—	3.06	0.00	48,083	48,083	0.91	0.09	—	48,133
Consumer Products	154	154	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	13.6	13.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	172	170	37.9	16.1	0.24	3.06	—	3.06	3.06	—	3.06	0.00	48,083	48,083	0.91	0.09	—	48,133



Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	196	196	< 0.005	< 0.005	—	196
Consumer Products	28.1	28.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.47	2.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.09	3.82	0.29	32.6	< 0.005	0.03	—	0.03	0.02	—	0.02	—	95.6	95.6	< 0.005	< 0.005	—	96.0
Total	34.7	34.4	0.46	32.7	< 0.005	0.05	—	0.05	0.04	—	0.04	0.00	292	292	0.01	< 0.005	—	292

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	123	233	356	12.7	0.30	—	764
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	144	271	415	14.8	0.35	—	889
Office Park	—	—	—	—	—	—	—	—	—	—	—	707	1,335	2,042	72.7	1.75	—	4,381

Milpitas Adopted Milpitas Midtown Specific Plan Detailed Report, 11/11/2024

General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	483	913	1,396	49.7	1.20	—	2,994
Library	—	—	—	—	—	—	—	—	—	—	—	7.61	14.4	22.0	0.78	0.02	—	47.2
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	18.0	18.0	< 0.005	< 0.005	—	18.1
Total	—	—	—	—	—	—	—	—	—	—	—	1,465	2,784	4,248	151	3.62	—	9,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	123	233	356	12.7	0.30	—	764
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	144	271	415	14.8	0.35	—	889
Office Park	—	—	—	—	—	—	—	—	—	—	—	707	1,335	2,042	72.7	1.75	—	4,381
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	483	913	1,396	49.7	1.20	—	2,994
Library	—	—	—	—	—	—	—	—	—	—	—	7.61	14.4	22.0	0.78	0.02	—	47.2
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	18.0	18.0	< 0.005	< 0.005	—	18.1
Total	—	—	—	—	—	—	—	—	—	—	—	1,465	2,784	4,248	151	3.62	—	9,093
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	20.4	38.5	58.9	2.10	0.05	—	126
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	23.8	44.9	68.6	2.44	0.06	—	147
Office Park	—	—	—	—	—	—	—	—	—	—	—	117	221	338	12.0	0.29	—	725

General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	80.0	151	231	8.23	0.20	—	496
Library	—	—	—	—	—	—	—	—	—	—	—	1.26	2.38	3.64	0.13	< 0.005	—	7.81
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	2.97	2.97	< 0.005	< 0.005	—	3.00
Total	—	—	—	—	—	—	—	—	—	—	—	242	461	703	24.9	0.60	—	1,506

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	707	0.00	707	70.6	0.00	—	2,472
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	823	0.00	823	82.2	0.00	—	2,879
Office Park	—	—	—	—	—	—	—	—	—	—	—	1,040	0.00	1,040	104	0.00	—	3,640
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	729	0.00	729	72.8	0.00	—	2,549
Library	—	—	—	—	—	—	—	—	—	—	—	63.0	0.00	63.0	6.30	0.00	—	220
City Park	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.04
Total	—	—	—	—	—	—	—	—	—	—	—	3,362	0.00	3,362	336	0.00	—	11,763

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	707	0.00	707	70.6	0.00	—	2,472
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	823	0.00	823	82.2	0.00	—	2,879
Office Park	—	—	—	—	—	—	—	—	—	—	—	1,040	0.00	1,040	104	0.00	—	3,640
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	729	0.00	729	72.8	0.00	—	2,549
Library	—	—	—	—	—	—	—	—	—	—	—	63.0	0.00	63.0	6.30	0.00	—	220
City Park	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.04
Total	—	—	—	—	—	—	—	—	—	—	—	3,362	0.00	3,362	336	0.00	—	11,763
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	409
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Office Park	—	—	—	—	—	—	—	—	—	—	—	172	0.00	172	17.2	0.00	—	603
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	121	0.00	121	12.1	0.00	—	422
Library	—	—	—	—	—	—	—	—	—	—	—	10.4	0.00	10.4	1.04	0.00	—	36.5
City Park	—	—	—	—	—	—	—	—	—	—	—	0.10	0.00	0.10	0.01	0.00	—	0.34
Total	—	—	—	—	—	—	—	—	—	—	—	557	0.00	557	55.6	0.00	—	1,948

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.5	13.5
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.2	14.2
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.05	5.05
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	284	284
Library	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	317	317
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.5	13.5
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.2	14.2
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.05	5.05

General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	284	284
Library	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	317	317
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.23	2.23
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.35	2.35
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.84	0.84
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47.0	47.0
Library	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.5	52.5

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetati on	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated



Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	37,759	37,759	37,759	13,782,035	685,920	685,920	685,920	250,360,800

### 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	904
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	869
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	1053
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1012
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
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7820104.5	2,606,702	4,980,992	1,660,331	—
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### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	6,649,615	204	0.0330	0.0040	35,387,853
Apartments Mid Rise	7,044,646	204	0.0330	0.0040	18,180,407
Office Park	43,944,876	204	0.0330	0.0040	49,304,248
General Heavy Industry	11,895,867	204	0.0330	0.0040	47,745,408
Library	1,385,021	204	0.0330	0.0040	5,558,939
City Park	0.00	204	0.0330	0.0040	0.00

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	64,300,327	0.00
Apartments Mid Rise	74,890,116	0.00
Office Park	368,965,130	0.00
General Heavy Industry	252,143,206	0.00
Library	3,972,064	0.00

City Park	0.00	6,514,277
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### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	1,311	—
Apartments Mid Rise	1,527	—
Office Park	1,931	—
General Heavy Industry	1,352	—
Library	117	—
City Park	1.08	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
General Heavy Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Library	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Library	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Library	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Library	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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### 5.17. User Defined

Equipment Type	Fuel Type
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### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.4	annual days of extreme heat
Extreme Precipitation	2.60	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A



Extreme Precipitation	1	1	1	2
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	17.6
AQ-PM	21.2
AQ-DPM	86.5
Drinking Water	23.5
Lead Risk Housing	8.49
Pesticides	0.00
Toxic Releases	36.1
Traffic	79.1
Effect Indicators	—

CleanUp Sites	99.6
Groundwater	98.7
Haz Waste Facilities/Generators	96.8
Impaired Water Bodies	33.2
Solid Waste	0.00
Sensitive Population	—
Asthma	18.9
Cardio-vascular	32.6
Low Birth Weights	67.2
Socioeconomic Factor Indicators	—
Education	54.8
Housing	19.4
Linguistic	80.7
Poverty	19.6
Unemployment	5.57

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	69.04914667
Employed	6.274862056
Median HI	88.02771718
Education	—
Bachelor's or higher	84.30642885
High school enrollment	100
Preschool enrollment	86.26972924
Transportation	—

Auto Access	29.74464263
Active commuting	46.63159245
Social	—
2-parent households	57.97510586
Voting	55.67817272
Neighborhood	—
Alcohol availability	37.71333248
Park access	15.29577826
Retail density	87.11664314
Supermarket access	64.94289747
Tree canopy	36.21198511
Housing	—
Homeownership	46.24663159
Housing habitability	78.41652765
Low-inc homeowner severe housing cost burden	73.03990761
Low-inc renter severe housing cost burden	88.81047094
Uncrowded housing	52.91928654
Health Outcomes	—
Insured adults	92.73707173
Arthritis	99.0
Asthma ER Admissions	86.7
High Blood Pressure	98.3
Cancer (excluding skin)	98.2
Asthma	98.6
Coronary Heart Disease	99.0
Chronic Obstructive Pulmonary Disease	99.3
Diagnosed Diabetes	97.0
Life Expectancy at Birth	88.5

Cognitively Disabled	98.7
Physically Disabled	98.7
Heart Attack ER Admissions	63.5
Mental Health Not Good	92.6
Chronic Kidney Disease	98.6
Obesity	97.2
Pedestrian Injuries	19.6
Physical Health Not Good	98.5
Stroke	98.8
Health Risk Behaviors	—
Binge Drinking	38.6
Current Smoker	85.1
No Leisure Time for Physical Activity	79.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	83.5
Children	16.3
Elderly	88.2
English Speaking	27.9
Foreign-born	87.8
Outdoor Workers	73.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	10.1
Traffic Density	74.5
Traffic Access	87.4
Other Indices	—
Hardship	15.7
Other Decision Support	—

2016 Voting	55.7
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### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	41.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	GP Capacity Assumptions for MSP
Operations: Architectural Coatings	BAAQMD VOC Limit of 50 g/L for interior and 100 g/L for exterior
Operations: Water and Waste Water	No specified water usage