TECHNICAL MEMORANDUM

DATE: December 18, 2025
TO: Grant Ross, Orbis Real Estate Partners, Inc.
FROM: Haseeb Qureshi, Urban Crossroads, Inc.
JOB NO: 15718-06 AQ & GHG Alternatives

SUBJECT: BEAUMONT HEIGHTS BUSINESS CENTER AQ, GHG, & HRA CEQA ALTERNATIVES ASSESSMENT

Urban Crossroads, Inc. has completed the following AQ, GHG, & HRA CEQA Alternatives Assessment for the Beaumont Heights Business Center (Project).

PROJECT OVERVIEW

On September 23, 2025, Urban Crossroads, Inc. prepared a detailed air quality impact analysis, greenhouse gas analysis, and health risk assessment analysis (2025 Air Quality, Greenhouse Gas, and Health Risk Studies) reports for the proposed Beaumont Heights Business Centre Project. The proposed Project evaluated in the 2025 Air Quality, Greenhouse Gas, and Health Risk Studies included a total buildout of approximately 5,182,891 square feet of combined office and industrial building area. The purpose of this evaluation is to assess the potential Project related air quality, greenhouse gas, and health risk impacts associated with the Alternative uses.

- The Reduced Density Alternative would consist of a 30% reduction in square footage compared to the proposed Project.
- The Urban Village and Industrial Alternative would consist of 2,591,445 square feet of industrial/warehousing space, 4,199,184 sf of regional serving commercial, and 2,314 high-density residential dwelling units.

AIR QUALITY ANALYSIS

CONSTRUCTION EMISSIONS

The construction of the Reduced Density and the Urban Village & Industrial Alternatives are anticipated to result in impacts similar to those disclosed in the 2025 Air Quality Study.

REGIONAL OPERATIONAL EMISSIONS

The Reduced Density Alternative would consist of a 30% reduction in square footage compared to the proposed Project evaluated in the 2025 Air Quality Study for a total of 3,628,024 square feet. As such, the Reduced Density Alternative shows a net reduction in trip generation of 4,914 trips per day including 571 fewer truck trips in comparison to the Project evaluated in the 2025 Air Quality Study.

The Urban Village & Industrial Alternative would consist of 2,591,445 square feet of industrial space, 4,199,184 square feet of regional serving commercial retail use, and 2,314 multifamily (high density) residential dwelling units. As such, the Urban Village & Industrial Alternative shows a net increase in

trip generation of 78,657 trips per day including 951 fewer truck trips in comparison to the Project evaluated in the 2025 Air Quality Study.

It should be noted that although the Project Alternatives are not anticipated to use natural gas, it was conservatively assumed that natural gas may be utilized for the residential land uses under the Urban Village & Industrial Alternative.

As mentioned previously, the proposed Project Alternative analysis includes two options (A and B) that have been evaluated to determine a range of impacts that could occur based on different truck trip lengths. As discussed in the AQIA, truck trip lengths are based on StreetLight™ data and the truck fleet mix for each use, as identified in the Project traffic analysis for each use. Option A is based on a trip length of 94.48 miles and Option B is based on a trip length of 95.70 miles. It should be noted that these truck trip lengths were only applied to truck trips associated with the industrial portion of the Project. As this difference in trip lengths would only affect the Mobile Source Category, the Operational Emissions Summary below includes separate sections for both Option A and Option B trip lengths to clearly summarize each Option.

Option A

The estimated operation-source emissions from Option A are summarized by Tables 1-1 and 1-2 for the Project Buildout (2032). Detailed operation model outputs are presented in Appendix 1 and 2.

As shown on Table 1-1, the Reduced Density Alternative would exceed the numerical thresholds of significance for emissions of VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$ during both the summer and winter seasons. In Table 1-2, the Urban Village & Industrial Alternative would exceed the numerical thresholds of significance for emissions of VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$ during both the summer and winter seasons.

TABLE 1-1: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS – REDUCED DENSITY

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	41.91	270.39	667.35	4.39	290.50	78.83
Area Source	114.20	1.33	157.79	0.01	0.28	0.21
Stationary Source	1.97	5.50	5.02	0.01	0.29	0.29
On-Site Equipment	1.64	5.25	230.23	0.00	0.41	0.38
Total Maximum Daily Emission	**159.72**	**282.48**	**1,060.39**	**4.41**	**291.49**	**79.71**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**
Winter						
Mobile Source	40.48	283.78	545.78	4.27	290.51	78.83
Area Source	88.27	0.00	0.00	0.00	0.00	0.00
Stationary Source	1.97	5.50	5.02	0.01	0.29	0.29
On-Site Equipment	1.64	5.25	230.23	0.00	0.41	0.38
Total Maximum Daily Emission	**132.36**	**294.54**	**781.03**	**4.28**	**291.21**	**79.50**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**

TABLE 1-2: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS – URBAN VILLAGE & INDUSTRIAL

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	748.35	1,005.74	9,344.90	29.96	2,858.71	739.77
Area Source	275.21	3.70	427.20	0.02	0.58	0.44
Energy Source	0.81	14.21	8.82	0.09	1.12	1.12
Stationary Source	1.97	5.50	5.02	0.01	0.29	0.29
On-Site Equipment	1.17	3.75	164.45	0.00	0.29	0.27
Total Maximum Daily Emission	**1,027.51**	**1,032.91**	**9,950.38**	**30.08**	**2,860.99**	**741.89**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**
Winter						
Mobile Source	713.57	1,074.60	7,642.29	28.20	2,858.72	739.77
Area Source	215.33	0.00	0.00	0.00	0.00	0.00
Energy Source	0.81	14.21	8.82	0.09	1.12	1.12
Stationary Source	1.97	5.50	5.02	0.01	0.29	0.29
On-Site Equipment	1.17	3.75	164.45	0.00	0.29	0.27
Total Maximum Daily Emission	**932.85**	**1,098.07**	**7,820.58**	**28.30**	**2,860.42**	**741.45**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**

Option B

The estimated operation-source emissions from Option B are summarized by Tables 1-3 and 1-4 for Project Buildout (2032). Detailed operation model outputs are presented in Appendix 3 and 4.

As shown on Table 1-3, the Reduced Density Alternative would exceed the numerical thresholds of significance for emissions of VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$ during both the summer and winter seasons. In Table 1-4, the Urban Village & Industrial Alternative would exceed the numerical thresholds of significance for emissions of VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$ during both the summer and winter seasons.

TABLE 1-3: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS – REDUCED DENSITY

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	43.52	287.05	688.45	4.57	304.47	82.80
Area Source	114.20	1.33	157.79	0.01	0.28	0.21
Stationary Source	19.56	84.18	49.88	0.09	2.88	2.88
On-Site Equipment	1.64	5.25	230.23	0.00	0.41	0.38
TRU Source	46.35	38.68	5.92	0.00	0.43	0.40
Total Maximum Daily Emission	**225.27**	**416.49**	**1,132.27**	**4.67**	**308.47**	**86.67**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**
Winter						
Mobile Source	42.07	301.19	564.56	4.44	304.47	82.81
Area Source	88.27	0.00	0.00	0.00	0.00	0.00
Stationary Source	19.56	84.18	49.88	0.09	2.88	2.88
On-Site Equipment	1.64	5.25	230.23	0.00	0.41	0.38
TRU Source	46.35	38.68	5.92	0.00	0.43	0.40
Total Maximum Daily Emission	**197.89**	**429.30**	**850.59**	**4.54**	**308.19**	**86.46**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**

TABLE 1-4: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS – URBAN VILLAGE & INDUSTRIAL

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	749.47	1,017.59	9,358.65	30.08	2,868.28	742.51
Area Source	275.21	3.70	427.20	0.02	0.58	0.44
Energy Source	0.81	14.21	8.82	0.09	1.12	1.12
Stationary Source	19.56	84.18	49.88	0.09	2.88	2.88
On-Site Equipment	1.17	3.75	164.45	0.00	0.29	0.27
TRU Source	33.11	27.63	4.23	0.00	0.31	0.29
Total Maximum Daily Emission	**1,079.33**	**1,151.07**	**10,013.22**	**30.28**	**2,873.46**	**747.50**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**
Winter						
Mobile Source	714.66	1,086.99	7,654.69	28.32	2,868.28	742.51
Area Source	215.33	0.00	0.00	0.00	0.00	0.00
Energy Source	0.81	14.21	8.82	0.09	1.12	1.12
Stationary Source	19.56	84.18	49.88	0.09	2.88	2.88
On-Site Equipment	1.17	3.75	164.45	0.00	0.29	0.27
TRU Source	33.11	27.63	4.23	0.00	0.31	0.29
Total Maximum Daily Emission	**984.64**	**1,216.76**	**7,882.06**	**28.50**	**2,872.88**	**747.06**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**

GHG ANALYSIS

The Reduced Density Alternative would consist of a 30% reduction in square footage compared to the proposed Project evaluated in the 2025 Greenhouse Gas Study for a total of 3,628,024 square feet. As such, the Reduced Density Alternative shows a net reduction in trip generation of 4,914 trips per day including 571 fewer trucks trips in comparison to the Project evaluated in the 2025 Greenhouse Gas Study.

The Urban Village & Industrial Alternative would consist of 2,591,445 square feet of industrial space, 4,199,184 square feet of regional serving commercial retail use, and 2,314 multifamily (high density) residential dwelling units. As such, the Urban Village & Industrial Alternative shows a net increase in trip generation of 78,657 trips per day including 951 fewer trucks trips in comparison to the Project evaluated in the 2025 Greenhouse Gas Study.

As mentioned previously, the proposed Project Alternative analysis includes two options (A and B) that have been evaluated to determine a range of impacts that could occur based on different truck trip lengths. Option A is based on a trip length of 94.48 miles and Option B is based on a trip length of 95.70 miles. As this difference in trip lengths would only affect the Mobile Source Category, the

GHG Emissions Summary below includes separate sections for both Option A and Option B trip lengths to clearly summarize each Options.

Option A

The estimated GHG emissions from Option A are summarized in Tables 1-5 and 1-6. The estimated GHG emission includes emissions from Carbon Dioxide (CO_2), Methane (CH_4), Nitrous Oxide (N_2O), and Refrigerants (R). Detailed operation model outputs are presented in Appendices 1 and 2.

Operational emissions generated by the proposed Project at full buildout (i.e., 2032) are used to indicate the total amount of GHG emissions for on-going operational emissions. GHG Emissions associated with Project Buildout for Option A are summarized below.

TABLE 1-5: REDUCED DENSITY GHG EMISSIONS

Source	Emissions (MT/year)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Annual construction-related emissions amortized over 30 years	507.73	0.01	0.02	0.26	515.77
Mobile Source	64,973.44	1.22	6.89	51.55	67,109.71
Area Source	73.58	0.00	0.00	0.00	73.84
Energy Source	2,219.93	0.28	0.03	0.00	2,237.10
Water Source	49.08	0.44	0.01	0.00	63.49
Waste Source	304.30	30.41	0.00	0.00	1,064.63
Stationary Source	22.85	0.00	0.00	0.00	22.92
On-Site Equipment	0.00	0.00	0.00	0.00	663.25
Total CO_2e (All Sources)	**71,750.72**				

TABLE 1-6: URBAN VILLAGE & INDUSTRIAL GHG EMISSIONS

Source	Emissions (MT/year)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Annual construction-related emissions amortized over 30 years	507.73	0.01	0.02	0.26	515.77
Mobile Source	259,697.18	7.77	14.11	219.04	264,314.00
Area Source	177.52	0.01	0.00	0.00	178.16
Energy Source	10,954.43	1.28	0.13	0.00	11,024.76
Water Source	489.85	13.54	0.33	0.00	925.50
Waste Source	763.45	76.30	0.00	0.00	2,671.04
Refrigerant Source	0.00	0.00	0.00	5.00	5.00
Stationary Source	22.85	0.00	0.00	0.00	22.92
On-Site Equipment	0.00	0.00	0.00	0.00	473.75
Total CO_2e (All Sources)	**280,130.90**				

Option B

The estimated GHG emissions from Option B are summarized in Tables 1-7 and 1-8. The estimated GHG emission includes emissions from Carbon Dioxide (CO_2), Methane (CH_4), Nitrous Oxide (N_2O), and Refrigerants (R). Detailed operation model outputs are presented in Appendices 3 and 4.

Operational emissions generated by the proposed Project at full buildout (i.e., 2032) are used to indicate the total amount of GHG emissions for on-going operational emissions. GHG Emissions associated with Project Buildout for Option B are summarized below.

TABLE 1-7: REDUCED DENSITY GHG EMISSIONS

Source	Emissions (MT/year)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Annual construction-related emissions amortized over 30 years	507.73	0.01	0.02	0.26	515.77
Mobile Source	68,465.32	1.27	7.22	57.21	70,704.83
Area Source	73.58	0.00	0.00	0.00	73.84
Energy Source	3,649.73	0.46	0.06	0.00	3,677.95
Water Source	49.08	0.44	0.01	0.00	63.49
Waste Source	304.30	30.41	0.00	0.00	1,064.63
Refrigerants	0.00	0.00	0.00	118.13	118.13
Stationary Source	226.96	0.01	0.00	0.00	227.71
On-Site Equipment	0.00	0.00	0.00	0.00	663.25
TRU Source	0.00	0.00	0.00	0.00	1,485.29
Total CO_2e (All Sources)	**78,594.90**				

TABLE 1-8: URBAN VILLAGE & INDUSTRIAL GHG EMISSIONS

Source	Emissions (MT/year)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Annual construction-related emissions amortized over 30 years	507.73	0.01	0.02	0.26	515.77
Mobile Source	262,088.96	7.80	14.34	223.01	266,778.87
Area Source	177.52	0.01	0.00	0.00	178.16
Energy Source	11,975.71	1.40	0.14	0.00	12,053.94
Water Source	489.85	13.54	0.33	0.00	925.50
Waste Source	763.45	76.30	0.00	0.00	2,671.04
Refrigerant Source	0.00	0.00	0.00	89.37	89.37
Stationary Source	226.96	0.01	0.00	0.00	227.71
On-Site Equipment	0.00	0.00	0.00	0.00	473.75
TRU Source	0.00	0.00	0.00	0.00	1,060.92
Total CO_2e (All Sources)	**284,975.03**				

HEALTH RISK ANALYSIS

During the operation of the Project, the Reduced Density Alternative results in a net reduction in trip generation of 4,914 trips per day including 571 fewer truck trips in comparison to the proposed Project. Although the Urban Village & Industrial Alternative would result in a net increase in trip generation of 78,657 trips per day, it would result in 951 fewer truck trips in comparison to the proposed Project. It should be noted that heavy duty trucks are the primary source of diesel particulate matter (DPM) emissions associated with the Project. As a result, despite overall increases in the number of trips for the Reduced Density Alternative and Urban Village & Industrial Alternative, these scenarios would result in fewer heavy-duty truck trips and thus lower DPM emissions, resulting in lower cancer and non-cancer health risks for nearby residents, workers, and schoolchildren than what is disclosed in the DEIR for the Project. Additionally, it is anticipated that construction activities for both alternatives would be similar to those for the proposed Project, and thus potential health risks associated with construction of the alternatives would not differ significantly from the risk that was estimated for the proposed Project.

APPENDIX 1:

CALEEMOD REDUCED DENSITY ALTERNATIVE OUTPUTS – OPTION A

15718 Beaumont Heights Reduced Density Option A Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15718 Beaumont Heights Reduced Density Option A
Operational Year	2032
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.5
Precipitation (days)	26
Location	33.907491, -116.977595
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5627
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Unrefrigerated Warehouse-No Rail	1,088	1000sqft	25	1,088,408	840,773	—	—	High-Cube Fulfillment (Non-Sort)

Unrefrigerated Warehouse-No Rail	1,088	1000sqft	25	1,088,407	840,773	—	—	High-Cube Fulfillment (Sort)
Parking Lot	6,025	Space	54	0.00	0.00	—	—	—
Other Asphalt Surfaces	155	Acre	155	0.00	0.00	—	—	—
User Defined Industrial	3,628	User Defined Unit	0.00	0.00	0.00	—	—	Passenger Cars
Unrefrigerated Warehouse-No Rail	1,451	1000sqft	33	1,451,209	840,773	—	—	Warehousing

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.	170	158	277	830	4.4	6.2	285	291	5.8	74	79	1,864	476,580	478,444	196	48	828	498,534
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	140	131	289	551	4.3	5.9	285	291	5.6	74	79	1,864	463,543	465,406	197	48	21	484,760
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	152	142	251	609	3.7	5.1	246	251	4.8	64	68	1,864	406,705	408,568	195	42	311	426,257
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28	26	46	111	0.68	0.92	45	46	0.87	12	12	309	67,335	67,643	32	6.9	52	70,572

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	51	42	270	667	4.4	5.6	285	291	5.3	74	79	—	461,245	461,245	8.3	48	828	476,546
Area	116	114	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,409	13,409	1.7	0.21	—	13,512
Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Stationary	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	170	158	277	830	4.4	6.2	285	291	5.8	74	79	1,864	476,580	478,444	196	48	828	498,534
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	50	40	284	546	4.3	5.6	285	291	5.3	74	79	—	448,856	448,856	8.4	48	21	463,423
Area	88	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,409	13,409	1.7	0.21	—	13,512
Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Stationary	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	140	131	289	551	4.3	5.9	285	291	5.6	74	79	1,864	463,543	465,406	197	48	21	484,760
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	44	36	249	500	3.7	4.8	246	251	4.6	64	68	—	392,443	392,443	7.3	42	311	405,346
Area	108	106	0.91	108	0.01	0.19	—	0.19	0.15	—	0.15	—	444	444	0.02	< 0.005	—	446
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,409	13,409	1.7	0.21	—	13,512

Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Stationary	0.30	0.27	0.75	0.69	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	138	138	0.01	< 0.005	0.00	138
Total	152	142	251	609	3.7	5.1	246	251	4.8	64	68	1,864	406,705	408,568	195	42	311	426,257
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.0	6.5	45	91	0.68	0.88	45	46	0.84	12	12	—	64,973	64,973	1.2	6.9	52	67,110
Area	20	19	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,220	2,220	0.28	0.03	—	2,237
Water	—	—	—	—	—	—	—	—	—	—	—	4.3	45	49	0.44	0.01	—	63
Waste	—	—	—	—	—	—	—	—	—	—	—	304	0.00	304	30	0.00	—	1,065
Stationary	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23
Total	28	26	46	111	0.68	0.92	45	46	0.87	12	12	309	67,335	67,643	32	6.9	52	70,572

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	9.4	4.5	246	56	2.8	5.1	109	114	4.9	29	34	—	298,993	298,993	4.5	45	559	313,054

Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	42	37	24	612	1.6	0.51	176	176	0.47	44	45	—	162,251	162,251	3.8	2.9	269	163,492
Total	51	42	270	667	4.4	5.6	285	291	5.3	74	79	—	461,245	461,245	8.3	48	828	476,546
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	9.3	4.4	257	56	2.8	5.1	109	114	4.9	29	34	—	299,027	299,027	4.5	45	15	312,547
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	41	36	27	490	1.5	0.51	176	176	0.47	44	45	—	149,829	149,829	3.9	3.2	7.0	150,875
Total	50	40	284	546	4.3	5.6	285	291	5.3	74	79	—	448,856	448,856	8.4	48	21	463,423
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.5	0.70	41	8.7	0.44	0.80	17	18	0.76	4.5	5.3	—	42,704	42,704	0.64	6.4	34	44,668
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00

User Defined Industrial	6.5	5.8	4.5	83	0.24	0.08	28	28	0.08	7.1	7.1	—	22,269	22,269	0.57	0.47	17	22,442
Total	8.0	6.5	45	91	0.68	0.88	45	46	0.84	12	12	—	64,973	64,973	1.2	6.9	52	67,110

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	11,930	11,930	1.5	0.18	—	12,022
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,409	13,409	1.7	0.21	—	13,512
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	11,930	11,930	1.5	0.18	—	12,022

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,409	13,409	1.7	0.21	—	13,512
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,975	1,975	0.25	0.03	—	1,990
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	245	245	0.03	< 0.005	—	247
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,220	2,220	0.28	0.03	—	2,237

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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

Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	78	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	9.9	9.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	28	26	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Total	116	114	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	78	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	9.9	9.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	88	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	14	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.8	1.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.5	3.2	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74
Total	20	19	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	4.3	45	49	0.44	0.01	—	63
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.3	45	49	0.44	0.01	—	63

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	304	0.00	304	30	0.00	—	1,065
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	304	0.00	304	30	0.00	—	1,065

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23
Total	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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)

Vegetation	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
Unrefrigerated Warehouse-No Rail	250	124	116	77,808	23,657	11,725	11,005	7,352,852
Unrefrigerated Warehouse-No Rail	209	178	177	73,041	19,733	16,856	16,753	6,897,230
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	10,135	6,178	6,081	3,281,420	252,378	153,853	151,423	81,716,490
Unrefrigerated Warehouse-No Rail	872	406	380	268,402	82,412	38,395	35,927	25,361,318

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)

Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0

Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0
User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	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)
undefined	0.00	0.00	5,442,036	1,814,012	546,674

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Unrefrigerated Warehouse-No Rail	5,009,236	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,009,232	261	0.0330	0.0040	0.00
Parking Lot	2,069,148	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	6,678,974	261	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)
Unrefrigerated Warehouse-No Rail	4,492,797	18,027,154

Unrefrigerated Warehouse-No Rail	4,492,797	18,027,154
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	4,492,797	18,027,154

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	1,023	0.00
Unrefrigerated Warehouse-No Rail	1,023	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	1,364	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

Fire Pump	Diesel	1.00	1.00	50	300	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73

5.16.2. Process Boilers

5.17. User Defined

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	31	annual days of extreme heat
Extreme Precipitation	5.3	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	24	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	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	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	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
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	98
AQ-PM	37
AQ-DPM	2.9
Drinking Water	59

Lead Risk Housing	0.37
Pesticides	24
Toxic Releases	25
Traffic	81
Effect Indicators	—
CleanUp Sites	17
Groundwater	60
Haz Waste Facilities/Generators	68
Impaired Water Bodies	12
Solid Waste	95
Sensitive Population	—
Asthma	82
Cardio-vascular	93
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	20
Housing	30
Linguistic	9.5
Poverty	30
Unemployment	94

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	76.13242654
Employed	0.269472604
Median HI	29.16720133

Education	—
Bachelor's or higher	50.41704093
High school enrollment	100
Preschool enrollment	54.79276274
Transportation	—
Auto Access	38.61157449
Active commuting	50.49403311
Social	—
2-parent households	77.3643013
Voting	99.70486334
Neighborhood	—
Alcohol availability	93.750802
Park access	16.88694983
Retail density	8.456306942
Supermarket access	22.39189016
Tree canopy	6.172205826
Housing	—
Homeownership	97.18978571
Housing habitability	89.87552932
Low-inc homeowner severe housing cost burden	67.34248685
Low-inc renter severe housing cost burden	68.75401001
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	55.46002823
Arthritis	0.0
Asthma ER Admissions	15.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	12.4
Cognitively Disabled	11.3
Physically Disabled	0.6
Heart Attack ER Admissions	0.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	7.3
SLR Inundation Area	0.0
Children	99.4
Elderly	0.1
English Speaking	72.8
Foreign-born	11.0
Outdoor Workers	16.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.5

Traffic Density	66.8
Traffic Access	23.0
Other Indices	—
Hardship	68.2
Other Decision Support	—
2016 Voting	99.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67
Healthy Places Index Score for Project Location (b)	33
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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

8.1. Justifications

Screen	Justification

Operations: Vehicle Data	Trip Characteristics based on information provided in the Traffic Analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Energy Use	The Project will not utilize Natural Gas
Operations: Water and Waste Water	indoor and outdoor water usage based on WSA Report

APPENDIX 2:

CALEEMOD URBAN VILLAGE & INDUSTRIAL ALTERNATIVE OUTPUTS – OPTION A

15718 Beaumont Heights Urban Village & Industrial Option A Detailed Report

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1.1. Basic Project Information

Data Field	Value
Project Name	15718 Beaumont Heights Urban Village & Industrial Option A
Operational Year	2032
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.5
Precipitation (days)	26
Location	33.907491, -116.977595
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5627
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Unrefrigerated Warehouse-No Rail	777	1000sqft	18	777,434	840,773	—	—	High-Cube Fulfillment (Non-Sort)

Unrefrigerated Warehouse-No Rail	777	1000sqft	18	777,434	840,773	—	—	High-Cube Fulfillment (Sort)
Parking Lot	6,025	Space	54	0.00	0.00	—	—	—
Other Asphalt Surfaces	155	Acre	155	0.00	0.00	—	—	—
User Defined Industrial	2,591	User Defined Unit	0.00	0.00	0.00	—	—	Passenger Cars
Unrefrigerated Warehouse-No Rail	1,037	1000sqft	24	1,036,578	840,773	—	—	Warehousing
Apartments Mid Rise	2,314	Dwelling Unit	61	2,221,440	0.00	—	7,474	—
Regional Shopping Center	4,199	1000sqft	96	4,199,184	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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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.	1,130	1,026	1,029	9,786	30	22	2,839	2,861	21	721	742	5,406	3,142,364	3,147,771	638	144	5,759	3,212,398
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,030	932	1,094	7,656	28	21	2,839	2,860	20	721	741	5,406	2,963,088	2,968,495	640	147	179	3,028,599

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	679	623	638	4,397	15	13	1,460	1,473	12	371	383	5,406	1,638,125	1,643,531	597	88	1,353	1,686,029
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	124	114	116	802	2.8	2.3	266	269	2.2	68	70	895	271,210	272,105	99	15	224	279,141

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	846	748	1,006	9,345	30	20	2,839	2,859	19	721	740	—	3,071,462	3,071,462	88	141	5,729	3,121,473
Area	280	275	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	66,165	66,165	7.7	0.78	—	66,590
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
Stationary	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	1,130	1,026	1,029	9,786	30	22	2,839	2,861	21	721	742	5,406	3,142,364	3,147,771	638	144	5,759	3,212,398
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	811	714	1,075	7,642	28	20	2,839	2,859	19	721	740	—	2,893,752	2,893,752	89	145	149	2,939,245
Area	215	215	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	66,165	66,165	7.7	0.78	—	66,590
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
Stationary	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	1,030	932	1,094	7,656	28	21	2,839	2,860	20	721	741	5,406	2,963,088	2,968,495	640	147	179	3,028,599
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	417	366	621	4,095	15	11	1,460	1,471	11	371	382	—	1,568,585	1,568,585	47	85	1,323	1,596,471
Area	260	256	2.5	293	0.02	0.40	—	0.40	0.30	—	0.30	—	1,072	1,072	0.04	0.01	—	1,076
Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	66,165	66,165	7.7	0.78	—	66,590
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
Stationary	0.30	0.27	0.75	0.69	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	138	138	0.01	< 0.005	0.00	138
Total	679	623	638	4,397	15	13	1,460	1,473	12	371	383	5,406	1,638,125	1,643,531	597	88	1,353	1,686,029
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	76	67	113	747	2.8	2.1	266	269	1.9	68	70	—	259,697	259,697	7.8	14	219	264,314
Area	47	47	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178
Energy	0.29	0.15	2.6	1.6	0.02	0.20	—	0.20	0.20	—	0.20	—	10,954	10,954	1.3	0.13	—	11,025
Water	—	—	—	—	—	—	—	—	—	—	—	132	358	490	14	0.33	—	926
Waste	—	—	—	—	—	—	—	—	—	—	—	763	0.00	763	76	0.00	—	2,671
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.0	5.0
Stationary	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23
Total	124	114	116	802	2.8	2.3	266	269	2.2	68	70	895	271,210	272,105	99	15	224	279,141

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.7	3.2	176	40	2.0	3.6	78	82	3.5	21	24	—	213,567	213,567	3.2	32	399	223,610
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	28	25	15	364	0.94	0.30	103	103	0.28	26	26	—	95,304	95,304	2.4	1.8	158	96,057
Apartments Mid Rise	38	34	34	359	1.1	0.62	103	104	0.59	26	27	—	107,858	107,858	3.5	4.3	201	109,436
Regional Shopping Center	774	686	782	8,582	26	15	2,555	2,570	14	648	662	—	2,654,734	2,654,734	79	103	4,971	2,692,369
Total	846	748	1,006	9,345	30	20	2,839	2,859	19	721	740	—	3,071,462	3,071,462	88	141	5,729	3,121,473

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.7	3.2	183	40	2.0	3.6	78	82	3.5	21	24	—	213,591	213,591	3.2	32	10	223,248
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	27	24	16	294	0.87	0.30	103	103	0.28	26	26	—	88,024	88,024	2.4	1.9	4.1	88,664
Apartments Mid Rise	36	33	36	297	0.99	0.63	103	104	0.59	26	27	—	101,235	101,235	3.6	4.5	5.2	102,659
Regional Shopping Center	741	654	839	7,012	24	15	2,555	2,570	14	648	662	—	2,490,903	2,490,903	80	106	129	2,524,673
Total	811	714	1,075	7,642	28	20	2,839	2,859	19	721	740	—	2,893,752	2,893,752	89	145	149	2,939,245
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.1	0.50	29	6.2	0.31	0.57	12	13	0.55	3.2	3.8	—	30,503	30,503	0.46	4.6	25	31,906
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00

User Defined Industrial	4.3	3.8	2.7	49	0.14	0.05	16	16	0.05	4.1	4.2	—	13,083	13,083	0.36	0.29	10.0	13,188
Apartments Mid Rise	6.4	5.7	6.5	54	0.18	0.11	18	18	0.10	4.6	4.7	—	16,416	16,416	0.57	0.72	14	16,660
Regional Shopping Center	64	57	75	637	2.2	1.3	220	221	1.3	56	57	—	199,695	199,695	6.4	8.5	170	202,560
Total	76	67	113	747	2.8	2.1	266	269	1.9	68	70	—	259,697	259,697	7.8	14	219	264,314

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	8,522	8,522	1.1	0.13	—	8,587
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	9,356	9,356	1.2	0.14	—	9,429
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	29,278	29,278	3.7	0.45	—	29,504
Total	—	—	—	—	—	—	—	—	—	—	—	—	48,634	48,634	6.2	0.75	—	49,010
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	8,522	8,522	1.1	0.13	—	8,587
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	9,356	9,356	1.2	0.14	—	9,429
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	29,278	29,278	3.7	0.45	—	29,504
Total	—	—	—	—	—	—	—	—	—	—	—	—	48,634	48,634	6.2	0.75	—	49,010
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,411	1,411	0.18	0.02	—	1,422
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	245	245	0.03	< 0.005	—	247
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,549	1,549	0.20	0.02	—	1,561
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	4,847	4,847	0.61	0.07	—	4,885
Total	—	—	—	—	—	—	—	—	—	—	—	—	8,052	8,052	1.0	0.12	—	8,114

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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

Other Asphalt Surfaces	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
User Defined Industrial	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
Apartments Mid Rise	0.88	0.44	7.5	3.2	0.05	0.61	—	0.61	0.61	—	0.61	—	9,561	9,561	0.85	0.02	—	9,588
Regional Shopping Center	0.73	0.37	6.7	5.6	0.04	0.51	—	0.51	0.51	—	0.51	—	7,970	7,970	0.71	0.02	—	7,992
Total	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	17,531	17,531	1.6	0.03	—	17,580
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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
Apartments Mid Rise	0.88	0.44	7.5	3.2	0.05	0.61	—	0.61	0.61	—	0.61	—	9,561	9,561	0.85	0.02	—	9,588

Regional Shopping Center	0.73	0.37	6.7	5.6	0.04	0.51	—	0.51	0.51	—	0.51	—	7,970	7,970	0.71	0.02	—	7,992
Total	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	17,531	17,531	1.6	0.03	—	17,580
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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
Apartments Mid Rise	0.16	0.08	1.4	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,583	1,583	0.14	< 0.005	—	1,587
Regional Shopping Center	0.13	0.07	1.2	1.0	0.01	0.09	—	0.09	0.09	—	0.09	—	1,320	1,320	0.12	< 0.005	—	1,323
Total	0.29	0.15	2.6	1.6	0.02	0.20	—	0.20	0.20	—	0.20	—	2,903	2,903	0.26	0.01	—	2,911

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	194	194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	22	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	65	60	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Total	280	275	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	194	194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	22	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	215	215	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	35	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	4.0	4.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	8.1	7.5	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178
Total	47	47	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	18	193	212	1.9	0.05	—	274
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	180	458	638	19	0.45	—	1,235
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	596	1,513	2,109	61	1.5	—	4,081
Total	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	18	193	212	1.9	0.05	—	274
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	180	458	638	19	0.45	—	1,235
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	596	1,513	2,109	61	1.5	—	4,081
Total	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.1	32	35	0.32	0.01	—	45
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	30	76	106	3.1	0.07	—	204
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	99	250	349	10	0.24	—	676
Total	—	—	—	—	—	—	—	—	—	—	—	132	358	490	14	0.33	—	926

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,313	0.00	1,313	131	0.00	—	4,593
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Apartments	—	—	—	—	—	—	—	—	—	—	—	922	0.00	922	92	0.00	—	3,226
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,376	0.00	2,376	237	0.00	—	8,314
Total	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,313	0.00	1,313	131	0.00	—	4,593
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	922	0.00	922	92	0.00	—	3,226
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,376	0.00	2,376	237	0.00	—	8,314
Total	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	217	0.00	217	22	0.00	—	760
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	153	0.00	153	15	0.00	—	534
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	393	0.00	393	39	0.00	—	1,376
Total	—	—	—	—	—	—	—	—	—	—	—	763	0.00	763	76	0.00	—	2,671

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 Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14

Regional	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.4	2.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.6	2.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.0	5.0

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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23

Total	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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)

Vegetation	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
Unrefrigerated Warehouse-No Rail	179	89	83	55,577	16,898	8,375	7,861	5,252,035
Unrefrigerated Warehouse-No Rail	149	127	127	52,172	14,095	12,040	11,966	4,926,595
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	7,239	4,413	4,343	2,343,871	147,952	90,194	88,769	47,904,692
Unrefrigerated Warehouse-No Rail	623	290	272	191,716	58,866	27,425	25,662	18,115,230
Apartments Mid Rise	10,506	10,575	8,724	3,745,242	145,147	146,106	120,529	51,744,927
Regional Shopping Center	76,341	195,682	79,659	34,260,272	1,408,804	3,611,127	1,470,023	632,241,111

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0

Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0

User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	0	0
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	0	0
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Regional Shopping Center	Wood Fireplaces	0	0

Regional Shopping Center	Gas Fireplaces	0	0
Regional Shopping Center	Propane Fireplaces	0	0
Regional Shopping Center	Electric Fireplaces	0	0
Regional Shopping Center	No Fireplaces	0	0
Regional Shopping Center	Conventional Wood Stoves	0	0
Regional Shopping Center	Catalytic Wood Stoves	0	0
Regional Shopping Center	Non-Catalytic Wood Stoves	0	0
Regional Shopping Center	Pellet Wood Stoves	0	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)
undefined	4,498,416	1,499,472	10,185,945	3,395,315	546,674

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Unrefrigerated Warehouse-No Rail	3,578,024	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,578,024	261	0.0330	0.0040	0.00
Parking Lot	2,069,148	261	0.0330	0.0040	0.00

Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	4,770,696	261	0.0330	0.0040	0.00
Apartments Mid Rise	13,095,293	261	0.0330	0.0040	29,833,968
Regional Shopping Center	40,977,292	261	0.0330	0.0040	24,868,286

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	3,209,141	12,876,539
Unrefrigerated Warehouse-No Rail	3,209,141	12,876,539
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	3,209,141	12,876,539
Apartments Mid Rise	94,119,115	0.00
Regional Shopping Center	311,044,147	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	731	0.00
Unrefrigerated Warehouse-No Rail	731	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	974	0.00
Apartments Mid Rise	1,711	0.00
Regional Shopping Center	4,409	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.0	4.0	18
Regional Shopping Center	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

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
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73

Fire Pump	Diesel	1.00	1.00	50	300	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73

5.16.2. Process Boilers

5.17. User Defined

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	31	annual days of extreme heat
Extreme Precipitation	5.3	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	24	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	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	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	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
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	98
AQ-PM	37
AQ-DPM	2.9
Drinking Water	59
Lead Risk Housing	0.37

Pesticides	24
Toxic Releases	25
Traffic	81
Effect Indicators	—
CleanUp Sites	17
Groundwater	60
Haz Waste Facilities/Generators	68
Impaired Water Bodies	12
Solid Waste	95
Sensitive Population	—
Asthma	82
Cardio-vascular	93
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	20
Housing	30
Linguistic	9.5
Poverty	30
Unemployment	94

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	76.13242654
Employed	0.269472604
Median HI	29.16720133
Education	—

Bachelor's or higher	50.41704093
High school enrollment	100
Preschool enrollment	54.79276274
Transportation	—
Auto Access	38.61157449
Active commuting	50.49403311
Social	—
2-parent households	77.3643013
Voting	99.70486334
Neighborhood	—
Alcohol availability	93.750802
Park access	16.88694983
Retail density	8.456306942
Supermarket access	22.39189016
Tree canopy	6.172205826
Housing	—
Homeownership	97.18978571
Housing habitability	89.87552932
Low-inc homeowner severe housing cost burden	67.34248685
Low-inc renter severe housing cost burden	68.75401001
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	55.46002823
Arthritis	0.0
Asthma ER Admissions	15.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0

Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	12.4
Cognitively Disabled	11.3
Physically Disabled	0.6
Heart Attack ER Admissions	0.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	7.3
SLR Inundation Area	0.0
Children	99.4
Elderly	0.1
English Speaking	72.8
Foreign-born	11.0
Outdoor Workers	16.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.5
Traffic Density	66.8

Traffic Access	23.0
Other Indices	—
Hardship	68.2
Other Decision Support	—
2016 Voting	99.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67
Healthy Places Index Score for Project Location (b)	33
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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

8.1. Justifications

Screen	Justification
Operations: Vehicle Data	Trip Characteristics based on information provided in the Traffic Analysis

Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Hearths	Project will not utilize fireplaces or wood stoves
Operations: Energy Use	The industrial portion of the Project will not utilize Natural Gas
Operations: Water and Waste Water	indoor and outdoor water usage based on WSA Report
Operations: Refrigerants	As of 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

APPENDIX 3:

CALEEMOD REDUCED DENSITY ALTERNATIVE OUTPUTS – OPTION B

15718 Beaumont Heights Reduced Density Option B Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15718 Beaumont Heights Reduced Density Option B
Operational Year	2032
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.5
Precipitation (days)	26
Location	33.907491, -116.977595
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5627
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Refrigerated Warehouse-No Rail	700	1000sqft	16	700,000	630,580	—	—	Cold Storage

Unrefrigerated Warehouse-No Rail	1,088	1000sqft	25	1,088,408	630,580	—	—	Non-Sort
Unrefrigerated Warehouse-No Rail	1,088	1000sqft	25	1,088,407	630,580	—	—	Sort
Parking Lot	6,025	Space	54	0.00	0.00	—	—	—
Other Asphalt Surfaces	155	Acre	155	0.00	0.00	—	—	—
User Defined Industrial	3,628	User Defined Unit	0.00	0.00	0.00	—	—	Passenger Vehicles
Unrefrigerated Warehouse-No Rail	751	1000sqft	17	751,209	630,580	—	—	Warehousing

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.	191	177	373	896	4.7	9.1	299	308	8.8	77	86	1,864	512,460	514,323	198	50	1,621	535,808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	162	150	385	614	4.5	8.8	299	307	8.6	77	86	1,864	499,198	501,061	198	50	737	521,734
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	157	146	280	641	4.0	5.8	262	268	5.5	68	73	1,864	437,665	439,528	197	44	1,059	458,625

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29	27	51	117	0.72	1.1	48	49	1.0	12	13	309	72,460	72,769	33	7.3	175	75,931

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	53	44	287	688	4.6	6.0	299	304	5.7	77	83	—	479,489	479,489	8.6	50	908	495,374
Area	116	114	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,045	22,045	2.8	0.34	—	22,215
Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Stationary	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Total	191	177	373	896	4.7	9.1	299	308	8.8	77	86	1,864	512,460	514,323	198	50	1,621	535,808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	52	42	301	565	4.4	6.0	299	304	5.7	77	83	—	466,876	466,876	8.6	50	24	481,951
Area	88	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,045	22,045	2.8	0.34	—	22,215
Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Stationary	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Total	162	150	385	614	4.5	8.8	299	307	8.6	77	86	1,864	499,198	501,061	198	50	737	521,734

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46	38	267	526	3.9	5.2	262	267	5.0	68	73	—	413,534	413,534	7.7	44	346	427,061
Area	108	106	0.91	108	0.01	0.19	—	0.19	0.15	—	0.15	—	444	444	0.02	< 0.005	—	446
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,045	22,045	2.8	0.34	—	22,215
Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Stationary	2.9	2.7	12	6.8	0.01	0.39	0.00	0.39	0.39	0.00	0.39	0.00	1,371	1,371	0.06	0.01	0.00	1,375
Total	157	146	280	641	4.0	5.8	262	268	5.5	68	73	1,864	437,665	439,528	197	44	1,059	458,625
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.5	6.9	49	96	0.72	0.95	48	49	0.91	12	13	—	68,465	68,465	1.3	7.2	57	70,705
Area	20	19	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,650	3,650	0.46	0.06	—	3,678
Water	—	—	—	—	—	—	—	—	—	—	—	4.3	45	49	0.44	0.01	—	63
Waste	—	—	—	—	—	—	—	—	—	—	—	304	0.00	304	30	0.00	—	1,065
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Stationary	0.54	0.49	2.1	1.2	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	227	227	0.01	< 0.005	0.00	228
Total	29	27	51	117	0.72	1.1	48	49	1.0	12	13	309	72,460	72,769	33	7.3	175	75,931

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	4.2	2.4	94	28	1.0	2.0	45	47	1.9	12	14	—	109,692	109,692	1.6	16	251	114,694
Unrefrigerated Warehouse-No Rail	6.5	3.1	168	38	1.9	3.5	75	78	3.3	20	23	—	204,606	204,606	3.1	31	383	214,227
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	43	38	25	623	1.6	0.52	179	179	0.48	45	46	—	165,190	165,190	3.9	3.0	274	166,453
Total	53	44	287	688	4.6	6.0	299	304	5.7	77	83	—	479,489	479,489	8.6	50	908	495,374
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	4.1	2.3	98	27	1.0	2.0	45	47	1.9	12	14	—	109,703	109,703	1.6	16	6.5	114,463
Unrefrigerated Warehouse-No Rail	6.4	3.0	176	38	1.9	3.5	75	78	3.3	20	23	—	204,629	204,629	3.1	31	9.9	213,880
Parking Lot	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	0.00	0.00	0.00

Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	41	37	28	499	1.5	0.52	179	179	0.48	45	46	—	152,543	152,543	4.0	3.2	7.1	153,608
Total	52	42	301	565	4.4	6.0	299	304	5.7	77	83	—	466,876	466,876	8.6	50	24	481,951
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.66	0.37	16	4.4	0.16	0.31	7.1	7.4	0.30	1.9	2.2	—	15,864	15,864	0.23	2.3	16	16,567
Unrefrigerated Warehouse-No Rail	1.0	0.49	28	6.0	0.30	0.55	12	12	0.53	3.1	3.7	—	29,525	29,525	0.44	4.4	24	30,882
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	6.8	6.0	4.7	86	0.25	0.09	29	29	0.08	7.3	7.4	—	23,077	23,077	0.59	0.49	18	23,256
Total	8.5	6.9	49	96	0.72	0.95	48	49	0.91	12	13	—	68,465	68,465	1.3	7.2	57	70,705

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.4	0.17	—	11,022
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	9,628	9,628	1.2	0.15	—	9,703
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	22,045	22,045	2.8	0.34	—	22,215
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.4	0.17	—	11,022
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	9,628	9,628	1.2	0.15	—	9,703
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	22,045	22,045	2.8	0.34	—	22,215
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,594	1,594	0.20	0.02	—	1,606
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	245	245	0.03	< 0.005	—	247
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,650	3,650	0.46	0.06	—	3,678

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigerated	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	78	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	9.9	9.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	28	26	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Total	116	114	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	78	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	9.9	9.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	88	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	14	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.8	1.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.5	3.2	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74
Total	20	19	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	6.5	68	74	0.67	0.02	—	96
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	19	203	222	2.0	0.05	—	288
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	6.5	68	74	0.67	0.02	—	96

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	19	203	222	2.0	0.05	—	288
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1.1	11	12	0.11	< 0.005	—	16
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.2	34	37	0.33	0.01	—	48
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.3	45	49	0.44	0.01	—	63

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35	0.00	—	1,241
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,483	0.00	1,483	148	0.00	—	5,190
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35	0.00	—	1,241
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,483	0.00	1,483	148	0.00	—	5,190

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	59	0.00	59	5.9	0.00	—	205
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	246	0.00	246	25	0.00	—	859
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	304	0.00	304	30	0.00	—	1,065

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118

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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Emergency Generator	19	18	79	45	0.08	2.6	0.00	2.6	2.6	0.00	2.6	0.00	9,000	9,000	0.36	0.07	0.00	9,030
Total	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011

Emergency	19	18	79	45	0.08	2.6	0.00	2.6	2.6	0.00	2.6	0.00	9,000	9,000	0.36	0.07	0.00	9,030
Total	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23
Emergency Generator	0.48	0.44	2.0	1.1	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	204	204	0.01	< 0.005	0.00	205
Total	0.54	0.49	2.1	1.2	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	227	227	0.01	< 0.005	0.00	228

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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)

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Refrigerated Warehouse-No Rail	526	300	287	167,827	51,503	29,313	28,080	16,420,194
Unrefrigerated Warehouse-No Rail	250	124	116	77,808	23,657	11,725	11,005	7,352,852
Unrefrigerated Warehouse-No Rail	209	178	177	73,041	19,733	16,856	16,753	6,897,230
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	10,318	6,875	6,748	3,400,430	256,949	171,209	168,047	84,680,178
Unrefrigerated Warehouse-No Rail	452	210	197	139,132	42,722	19,871	18,593	13,143,847

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Refrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Refrigerated Warehouse-No Rail	Gas Fireplaces	0	0

Refrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Refrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Refrigerated Warehouse-No Rail	No Fireplaces	0	0
Refrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0

Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0
User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0

Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	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)
undefined	0.00	0.00	5,442,036	1,814,012	546,674

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Refrigerated Warehouse-No Rail	15,308,685	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,009,236	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,009,232	261	0.0330	0.0040	0.00
Parking Lot	2,069,148	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00

User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,457,328	261	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)
Refrigerated Warehouse-No Rail	3,369,598	13,520,366
Unrefrigerated Warehouse-No Rail	3,369,598	13,520,366
Unrefrigerated Warehouse-No Rail	3,369,598	13,520,366
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	3,369,598	13,520,366

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	658	0.00
Unrefrigerated Warehouse-No Rail	1,023	0.00
Unrefrigerated Warehouse-No Rail	1,023	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	706	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.5	7.5	7.5	25

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73

5.16.2. Process Boilers

5.17. User Defined

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	31	annual days of extreme heat
Extreme Precipitation	5.3	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	24	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	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	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	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
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	98
AQ-PM	37
AQ-DPM	2.9
Drinking Water	59
Lead Risk Housing	0.37
Pesticides	24
Toxic Releases	25
Traffic	81
Effect Indicators	—
CleanUp Sites	17
Groundwater	60
Haz Waste Facilities/Generators	68
Impaired Water Bodies	12
Solid Waste	95

Sensitive Population	—
Asthma	82
Cardio-vascular	93
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	20
Housing	30
Linguistic	9.5
Poverty	30
Unemployment	94

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	76.13242654
Employed	0.269472604
Median HI	29.16720133
Education	—
Bachelor's or higher	50.41704093
High school enrollment	100
Preschool enrollment	54.79276274
Transportation	—
Auto Access	38.61157449
Active commuting	50.49403311
Social	—
2-parent households	77.3643013
Voting	99.70486334

Neighborhood	—
Alcohol availability	93.750802
Park access	16.88694983
Retail density	8.456306942
Supermarket access	22.39189016
Tree canopy	6.172205826
Housing	—
Homeownership	97.18978571
Housing habitability	89.87552932
Low-inc homeowner severe housing cost burden	67.34248685
Low-inc renter severe housing cost burden	68.75401001
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	55.46002823
Arthritis	0.0
Asthma ER Admissions	15.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	12.4
Cognitively Disabled	11.3
Physically Disabled	0.6
Heart Attack ER Admissions	0.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0

Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	7.3
SLR Inundation Area	0.0
Children	99.4
Elderly	0.1
English Speaking	72.8
Foreign-born	11.0
Outdoor Workers	16.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.5
Traffic Density	66.8
Traffic Access	23.0
Other Indices	—
Hardship	68.2
Other Decision Support	—
2016 Voting	99.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67

Healthy Places Index Score for Project Location (b)	33
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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

8.1. Justifications

Screen	Justification
Operations: Vehicle Data	Trip Characteristics based on information provided in the Traffic Analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Energy Use	The Project will not utilize Natural Gas
Operations: Water and Waste Water	indoor and outdoor water usage based on WSA Report
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively

APPENDIX 4:

CALEEMOD URBAN VILLAGE & INDUSTRIAL ALTERNATIVE OUTPUTS – OPTION B

15718 Beaumont Heights Urban Village & Industrial Option B Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15718 Beaumont Heights Urban Village & Industrial Option B
Operational Year	2032
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.5
Precipitation (days)	26
Location	33.907491, -116.977595
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5627
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Refrigerated Warehouse-No Rail	500	1000sqft	11	500,000	630,580	—	—	Cold Storage

Unrefrigerated Warehouse-No Rail	777	1000sqft	18	777,434	630,580	—	—	Non-Sort
Unrefrigerated Warehouse-No Rail	777	1000sqft	18	777,434	630,580	—	—	Sort
Parking Lot	6,025	Space	54	0.00	0.00	—	—	—
Other Asphalt Surfaces	155	Acre	155	0.00	0.00	—	—	—
User Defined Industrial	2,591	User Defined Unit	0.00	0.00	0.00	—	—	Passenger Vehicles
Unrefrigerated Warehouse-No Rail	537	1000sqft	12	536,578	630,580	—	—	Warehousing
Apartments Mid Rise	2,314	Dwelling Unit	61	2,221,440	0.00	—	7,474	—
Regional Shopping Center	4,199	1000sqft	96	4,199,184	0.00	—	—	—

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.	1,150	1,045	1,120	9,845	30	25	2,848	2,873	23	724	747	5,406	3,170,191	3,175,597	640	145	6,325	3,241,227
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	1,051	950	1,185	7,713	29	24	2,848	2,872	23	724	747	5,406	2,990,784	2,996,190	641	149	690	3,057,243
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	683	627	662	4,419	16	13	1,470	1,484	13	374	387	5,406	1,659,973	1,665,379	598	89	1,887	1,708,880
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	125	114	121	807	2.8	2.5	268	271	2.3	68	71	895	274,827	275,722	99	15	312	282,925

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	847	749	1,018	9,359	30	20	2,848	2,868	19	724	743	—	3,084,121	3,084,121	88	142	5,785	3,134,546
Area	280	275	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	72,334	72,334	8.5	0.87	—	72,806
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Stationary	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Total	1,150	1,045	1,120	9,845	30	25	2,848	2,873	23	724	747	5,406	3,170,191	3,175,597	640	145	6,325	3,241,227
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	812	715	1,087	7,655	28	20	2,848	2,868	19	724	743	—	2,906,279	2,906,279	90	146	150	2,952,133

Area	215	215	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	72,334	72,334	8.5	0.87	—	72,806
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Stationary	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Total	1,051	950	1,185	7,713	29	24	2,848	2,872	23	724	747	5,406	2,990,784	2,996,190	641	149	690	3,057,243
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	419	367	634	4,111	15	12	1,470	1,482	11	374	385	—	1,583,032	1,583,032	47	87	1,347	1,611,359
Area	260	256	2.5	293	0.02	0.40	—	0.40	0.30	—	0.30	—	1,072	1,072	0.04	0.01	—	1,076
Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	72,334	72,334	8.5	0.87	—	72,806
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Stationary	2.9	2.7	12	6.8	0.01	0.39	0.00	0.39	0.39	0.00	0.39	0.00	1,371	1,371	0.06	0.01	0.00	1,375
Total	683	627	662	4,419	16	13	1,470	1,484	13	374	387	5,406	1,659,973	1,665,379	598	89	1,887	1,708,880
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	76	67	116	750	2.8	2.1	268	270	2.0	68	70	—	262,089	262,089	7.8	14	223	266,779
Area	47	47	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178
Energy	0.29	0.15	2.6	1.6	0.02	0.20	—	0.20	0.20	—	0.20	—	11,976	11,976	1.4	0.14	—	12,054
Water	—	—	—	—	—	—	—	—	—	—	—	132	358	490	14	0.33	—	926
Waste	—	—	—	—	—	—	—	—	—	—	—	763	0.00	763	76	0.00	—	2,671
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	89	89
Stationary	0.54	0.49	2.1	1.2	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	227	227	0.01	< 0.005	0.00	228

Total	125	114	121	807	2.8	2.5	268	271	2.3	68	71	895	274,827	275,722	99	15	312	282,925

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	3.0	1.7	67	20	0.73	1.4	32	33	1.3	8.6	9.9	—	78,352	78,352	1.1	11	179	81,924
Unrefrigerated Warehouse-No Rail	4.6	2.2	120	27	1.4	2.5	53	56	2.4	14	17	—	146,147	146,147	2.2	22	273	153,020
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	28	25	15	371	0.96	0.31	105	105	0.28	26	27	—	97,030	97,030	2.4	1.8	161	97,797
Apartments Mid Rise	38	34	34	359	1.1	0.62	103	104	0.59	26	27	—	107,858	107,858	3.5	4.3	201	109,436

Regional	774	686	782	8,582	26	15	2,555	2,570	14	648	662	—	2,654,734	2,654,734	79	103	4,971	2,692,369
Total	847	749	1,018	9,359	30	20	2,848	2,868	19	724	743	—	3,084,121	3,084,121	88	142	5,785	3,134,546
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	3.0	1.7	70	20	0.73	1.4	32	33	1.3	8.6	9.9	—	78,360	78,360	1.1	11	4.7	81,759
Unrefrigerated Warehouse-No Rail	4.6	2.2	125	27	1.4	2.5	53	56	2.4	14	17	—	146,164	146,164	2.2	22	7.1	152,772
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	27	24	17	299	0.89	0.31	105	105	0.28	26	27	—	89,618	89,618	2.5	2.0	4.2	90,270
Apartments Mid Rise	36	33	36	297	0.99	0.63	103	104	0.59	26	27	—	101,235	101,235	3.6	4.5	5.2	102,659
Regional Shopping Center	741	654	839	7,012	24	15	2,555	2,570	14	648	662	—	2,490,903	2,490,903	80	106	129	2,524,673
Total	812	715	1,087	7,655	28	20	2,848	2,868	19	724	743	—	2,906,279	2,906,279	90	146	150	2,952,133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigerated Wareho Rail	0.47	0.27	11	3.1	0.12	0.22	5.0	5.3	0.21	1.4	1.6	—	11,331	11,331	0.16	1.6	11	11,833
Unrefrigerated Warehouse-No Rail	0.73	0.35	20	4.3	0.22	0.39	8.4	8.8	0.38	2.2	2.6	—	21,089	21,089	0.32	3.2	17	22,059
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	4.4	4.0	2.8	51	0.15	0.05	17	17	0.05	4.3	4.3	—	13,557	13,557	0.37	0.30	10	13,666
Apartments Mid Rise	6.4	5.7	6.5	54	0.18	0.11	18	18	0.10	4.6	4.7	—	16,416	16,416	0.57	0.72	14	16,660
Regional Shopping Center	64	57	75	637	2.2	1.3	220	221	1.3	56	57	—	199,695	199,695	6.4	8.5	170	202,560
Total	76	67	116	750	2.8	2.1	268	270	2.0	68	70	—	262,089	262,089	7.8	14	223	266,779

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	7,813	7,813	0.99	0.12	—	7,873
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,877	6,877	0.87	0.11	—	6,931
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	9,356	9,356	1.2	0.14	—	9,429
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	29,278	29,278	3.7	0.45	—	29,504
Total	—	—	—	—	—	—	—	—	—	—	—	—	54,803	54,803	6.9	0.84	—	55,227
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	7,813	7,813	0.99	0.12	—	7,873
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,877	6,877	0.87	0.11	—	6,931

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	9,356	9,356	1.2	0.14	—	9,429
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	29,278	29,278	3.7	0.45	—	29,504
Total	—	—	—	—	—	—	—	—	—	—	—	—	54,803	54,803	6.9	0.84	—	55,227
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,293	1,293	0.16	0.02	—	1,303
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,139	1,139	0.14	0.02	—	1,147
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	245	245	0.03	< 0.005	—	247
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,549	1,549	0.20	0.02	—	1,561
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	4,847	4,847	0.61	0.07	—	4,885
Total	—	—	—	—	—	—	—	—	—	—	—	—	9,073	9,073	1.1	0.14	—	9,143

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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

Apartments Mid Rise	0.88	0.44	7.5	3.2	0.05	0.61	—	0.61	0.61	—	0.61	—	9,561	9,561	0.85	0.02	—	9,588
Regional Shopping Center	0.73	0.37	6.7	5.6	0.04	0.51	—	0.51	0.51	—	0.51	—	7,970	7,970	0.71	0.02	—	7,992
Total	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	17,531	17,531	1.6	0.03	—	17,580
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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
Apartments Mid Rise	0.88	0.44	7.5	3.2	0.05	0.61	—	0.61	0.61	—	0.61	—	9,561	9,561	0.85	0.02	—	9,588
Regional Shopping Center	0.73	0.37	6.7	5.6	0.04	0.51	—	0.51	0.51	—	0.51	—	7,970	7,970	0.71	0.02	—	7,992

Total	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	17,531	17,531	1.6	0.03	—	17,580
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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
Apartments Mid Rise	0.16	0.08	1.4	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,583	1,583	0.14	< 0.005	—	1,587
Regional Shopping Center	0.13	0.07	1.2	1.0	0.01	0.09	—	0.09	0.09	—	0.09	—	1,320	1,320	0.12	< 0.005	—	1,323
Total	0.29	0.15	2.6	1.6	0.02	0.20	—	0.20	0.20	—	0.20	—	2,903	2,903	0.26	0.01	—	2,911

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	194	194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	22	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	65	60	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Total	280	275	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	194	194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	22	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	215	215	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	35	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	4.0	4.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	8.1	7.5	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178
Total	47	47	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	4.6	48	53	0.48	0.01	—	68
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	14	145	159	1.4	0.04	—	205
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	180	458	638	19	0.45	—	1,235

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	596	1,513	2,109	61	1.5	—	4,081
Total	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	4.6	48	53	0.48	0.01	—	68
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	14	145	159	1.4	0.04	—	205
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	180	458	638	19	0.45	—	1,235
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	596	1,513	2,109	61	1.5	—	4,081
Total	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	0.76	8.0	8.8	0.08	< 0.005	—	11
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.3	24	26	0.24	0.01	—	34
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	30	76	106	3.1	0.07	—	204
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	99	250	349	10	0.24	—	676
Total	—	—	—	—	—	—	—	—	—	—	—	132	358	490	14	0.33	—	926

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25	0.00	—	886
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,060	0.00	1,060	106	0.00	—	3,707
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	922	0.00	922	92	0.00	—	3,226
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,376	0.00	2,376	237	0.00	—	8,314
Total	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25	0.00	—	886
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,060	0.00	1,060	106	0.00	—	3,707

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	922	0.00	922	92	0.00	—	3,226
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,376	0.00	2,376	237	0.00	—	8,314
Total	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	42	0.00	42	4.2	0.00	—	147
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	175	0.00	175	18	0.00	—	614
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	153	0.00	153	15	0.00	—	534
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	393	0.00	393	39	0.00	—	1,376
Total	—	—	—	—	—	—	—	—	—	—	—	763	0.00	763	76	0.00	—	2,671

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84	84
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.4	2.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.6	2.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	89	89

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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Emergency Generator	19	18	79	45	0.08	2.6	0.00	2.6	2.6	0.00	2.6	0.00	9,000	9,000	0.36	0.07	0.00	9,030
Total	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011

Emergency	19	18	79	45	0.08	2.6	0.00	2.6	2.6	0.00	2.6	0.00	9,000	9,000	0.36	0.07	0.00	9,030
Total	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23
Emergency Generator	0.48	0.44	2.0	1.1	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	204	204	0.01	< 0.005	0.00	205
Total	0.54	0.49	2.1	1.2	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	227	227	0.01	< 0.005	0.00	228

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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)

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Refrigerated Warehouse-No Rail	376	214	205	119,876	36,788	20,938	20,057	11,728,710
Unrefrigerated Warehouse-No Rail	179	89	83	55,577	16,898	8,375	7,861	5,252,035
Unrefrigerated Warehouse-No Rail	149	127	127	52,172	14,095	12,040	11,966	4,926,595
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	7,370	4,911	4,820	2,428,878	150,632	100,368	98,514	49,642,096
Unrefrigerated Warehouse-No Rail	323	150	141	99,380	30,516	14,193	13,281	9,388,464
Apartments Mid Rise	10,506	10,575	8,724	3,745,242	145,147	146,106	120,529	51,744,927
Regional Shopping Center	76,341	195,682	79,659	34,260,272	1,408,804	3,611,127	1,470,023	632,241,111

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Refrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Refrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Refrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Refrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Refrigerated Warehouse-No Rail	No Fireplaces	0	0
Refrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0

Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0
User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0

Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	0	0
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	0	0
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Regional Shopping Center	Wood Fireplaces	0	0
Regional Shopping Center	Gas Fireplaces	0	0
Regional Shopping Center	Propane Fireplaces	0	0
Regional Shopping Center	Electric Fireplaces	0	0
Regional Shopping Center	No Fireplaces	0	0
Regional Shopping Center	Conventional Wood Stoves	0	0
Regional Shopping Center	Catalytic Wood Stoves	0	0
Regional Shopping Center	Non-Catalytic Wood Stoves	0	0
Regional Shopping Center	Pellet Wood Stoves	0	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)
undefined	4,498,416	1,499,472	10,185,945	3,395,315	546,674

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Refrigerated Warehouse-No Rail	10,934,775	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,578,024	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,578,024	261	0.0330	0.0040	0.00
Parking Lot	2,069,148	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	2,469,521	261	0.0330	0.0040	0.00
Apartments Mid Rise	13,095,293	261	0.0330	0.0040	29,833,968
Regional Shopping Center	40,977,292	261	0.0330	0.0040	24,868,286

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	2,406,856	9,657,404
Unrefrigerated Warehouse-No Rail	2,406,856	9,657,404
Unrefrigerated Warehouse-No Rail	2,406,856	9,657,404
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	2,406,856	9,657,404
Apartments Mid Rise	94,119,115	0.00
Regional Shopping Center	311,044,147	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	470	0.00
Unrefrigerated Warehouse-No Rail	731	0.00
Unrefrigerated Warehouse-No Rail	731	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	504	0.00
Apartments Mid Rise	1,711	0.00
Regional Shopping Center	4,409	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.5	7.5	7.5	25
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.0	4.0	18
Regional Shopping Center	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

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
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73

Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73

5.16.2. Process Boilers

5.17. User Defined

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	31	annual days of extreme heat
Extreme Precipitation	5.3	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	24	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	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	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	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
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	98
AQ-PM	37
AQ-DPM	2.9
Drinking Water	59
Lead Risk Housing	0.37
Pesticides	24
Toxic Releases	25

Traffic	81
Effect Indicators	—
CleanUp Sites	17
Groundwater	60
Haz Waste Facilities/Generators	68
Impaired Water Bodies	12
Solid Waste	95
Sensitive Population	—
Asthma	82
Cardio-vascular	93
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	20
Housing	30
Linguistic	9.5
Poverty	30
Unemployment	94

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	76.13242654
Employed	0.269472604
Median HI	29.16720133
Education	—
Bachelor's or higher	50.41704093
High school enrollment	100

Preschool enrollment	54.79276274
Transportation	—
Auto Access	38.61157449
Active commuting	50.49403311
Social	—
2-parent households	77.3643013
Voting	99.70486334
Neighborhood	—
Alcohol availability	93.750802
Park access	16.88694983
Retail density	8.456306942
Supermarket access	22.39189016
Tree canopy	6.172205826
Housing	—
Homeownership	97.18978571
Housing habitability	89.87552932
Low-inc homeowner severe housing cost burden	67.34248685
Low-inc renter severe housing cost burden	68.75401001
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	55.46002823
Arthritis	0.0
Asthma ER Admissions	15.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0

Diagnosed Diabetes	0.0
Life Expectancy at Birth	12.4
Cognitively Disabled	11.3
Physically Disabled	0.6
Heart Attack ER Admissions	0.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	7.3
SLR Inundation Area	0.0
Children	99.4
Elderly	0.1
English Speaking	72.8
Foreign-born	11.0
Outdoor Workers	16.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.5
Traffic Density	66.8
Traffic Access	23.0
Other Indices	—

Hardship	68.2
Other Decision Support	—
2016 Voting	99.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67
Healthy Places Index Score for Project Location (b)	33
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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

8.1. Justifications

Screen	Justification
Operations: Vehicle Data	Trip Characteristics based on information provided in the Traffic Analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks

Operations: Hearths	Project will not include wood fireplaces or stoves.
Operations: Energy Use	The industrial portions of the Project will not utilize Natural Gas
Operations: Water and Waste Water	indoor and outdoor water usage based on WSA Report
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. As of 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

TECHNICAL MEMORANDUM

DATE: December 18, 2025
TO: Grant Ross, Orbis Real Estate Partners, Inc.
FROM: Haseeb Qureshi, Urban Crossroads, Inc.
JOB NO: 15718-06 VMT Alternatives

SUBJECT: BEAUMONT HEIGHTS BUSINESS CENTER VEHICLE MILES TRAVELED (VMT) CEQA ALTERNATIVES ASSESSMENT

Urban Crossroads, Inc. has completed the following Vehicle Miles Traveled (VMT) CEQA Alternatives Assessment for the Beaumont Heights Business Center (Project).

PROJECT OVERVIEW

The current (2025) Project development concept proposes approximately 5,182,891 square feet of combined office and industrial building area. For analytic purposes and consistent with assumptions of the Project Environmental Impact Report (EIR), the 2025 Vehicle Miles Traveled Assessment evaluated approximately 5.7 million square feet of combined office and industrial building area. As the Project tenant(s) are unknown at present, the maximum development assumptions evaluated in the EIR also account for and accommodate a variety of potential future Project tenants. The purpose of this evaluation is to assess the potential Project related VMT impacts associated with the Alternative uses.

- The Reduced Density Alternative would consist of a 30% reduction in square footage compared to the proposed Project.
- The Urban Village and Industrial Alternative would consist of 2,591,445 square feet of industrial space, 4,199,184 sf of regional serving commercial, and 2,314 high-density residential dwelling units.

VMT SUMMARY

The Reduced Density Alternative would consist of a 30% reduction in square footage compared to the proposed Project square footage of 3,628,024 square feet. As such, the Reduced Density Alternative shows a net reduction in trip generation of 4,914 trips per day including 571 fewer truck trips in comparison to the proposed Project.

The Urban Village & Industrial Alternative would consist of 2,591,445 square feet of industrial space, 4,199,184 square feet of regional serving commercial retail use, and 2,314 multifamily (high density) residential dwelling units. As such, the Urban Village & Industrial Alternative shows a net increase in trip generation of 78,657 trips per day including 951 fewer truck trips in comparison to the proposed Project.

As mentioned previously, the proposed Project Alternative analysis includes two options (A and B) that have been evaluated to determine a range of impacts that could occur based on different truck

trip lengths. Option A is based on a trip length of 94.48 miles and Option B is based on a trip length of 95.70 miles. The VMT Summary below includes separate sections for both Option A and Option B trip lengths to clearly summarize each Option.

The estimated VMT for both Alternatives is summarized on Table 1-1 for Option A and Option B and were calculated utilizing the California Emissions Estimator Model (CalEEMod), which is a modeling tool utilized to calculate air quality and greenhouse gas emissions. Detailed operation model outputs from CalEEMod are presented in Appendix 1 through 4.

As shown on Table 1-1, the Reduced Density Alternative and Urban Village & Industrial Alternative would both generate a net increase in weekday VMT compared to what would otherwise occur under the proposed Project.

TABLE 1-1: AVERAGE WEEKDAY VMT

	Reduced Density Alternative		Urban Village & Industrial Alternative	
	Option A	Option B	Option A	Option B
Average Weekday VMT	378,180	394,564	1,791,762	1,802,880

CONCLUSION

The Reduced Density and the Urban Village & Industrial Alternatives would result in a higher average Weekday VMT total compared to the Proposed Project as evaluated in the DEIR. If you have any questions, please contact me directly at hqureshi@urbanxroads.com.

APPENDIX 1:

CALEEMOD REDUCED DENSITY ALTERNATIVE OUTPUTS – OPTION A

15718 Beaumont Heights Reduced Density Option A Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15718 Beaumont Heights Reduced Density Option A
Operational Year	2032
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.5
Precipitation (days)	26
Location	33.907491, -116.977595
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5627
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Unrefrigerated Warehouse-No Rail	1,088	1000sqft	25	1,088,408	840,773	—	—	High-Cube Fulfillment (Non-Sort)

Unrefrigerated Warehouse-No Rail	1,088	1000sqft	25	1,088,407	840,773	—	—	High-Cube Fulfillment (Sort)
Parking Lot	6,025	Space	54	0.00	0.00	—	—	—
Other Asphalt Surfaces	155	Acre	155	0.00	0.00	—	—	—
User Defined Industrial	3,628	User Defined Unit	0.00	0.00	0.00	—	—	Passenger Cars
Unrefrigerated Warehouse-No Rail	1,451	1000sqft	33	1,451,209	840,773	—	—	Warehousing

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.	170	158	277	830	4.4	6.2	285	291	5.8	74	79	1,864	476,580	478,444	196	48	828	498,534
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	140	131	289	551	4.3	5.9	285	291	5.6	74	79	1,864	463,543	465,406	197	48	21	484,760
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	152	142	251	609	3.7	5.1	246	251	4.8	64	68	1,864	406,705	408,568	195	42	311	426,257
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28	26	46	111	0.68	0.92	45	46	0.87	12	12	309	67,335	67,643	32	6.9	52	70,572

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	51	42	270	667	4.4	5.6	285	291	5.3	74	79	—	461,245	461,245	8.3	48	828	476,546
Area	116	114	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,409	13,409	1.7	0.21	—	13,512
Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Stationary	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	170	158	277	830	4.4	6.2	285	291	5.8	74	79	1,864	476,580	478,444	196	48	828	498,534
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	50	40	284	546	4.3	5.6	285	291	5.3	74	79	—	448,856	448,856	8.4	48	21	463,423
Area	88	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,409	13,409	1.7	0.21	—	13,512
Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Stationary	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	140	131	289	551	4.3	5.9	285	291	5.6	74	79	1,864	463,543	465,406	197	48	21	484,760
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	44	36	249	500	3.7	4.8	246	251	4.6	64	68	—	392,443	392,443	7.3	42	311	405,346
Area	108	106	0.91	108	0.01	0.19	—	0.19	0.15	—	0.15	—	444	444	0.02	< 0.005	—	446
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,409	13,409	1.7	0.21	—	13,512

Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Stationary	0.30	0.27	0.75	0.69	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	138	138	0.01	< 0.005	0.00	138
Total	152	142	251	609	3.7	5.1	246	251	4.8	64	68	1,864	406,705	408,568	195	42	311	426,257
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.0	6.5	45	91	0.68	0.88	45	46	0.84	12	12	—	64,973	64,973	1.2	6.9	52	67,110
Area	20	19	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,220	2,220	0.28	0.03	—	2,237
Water	—	—	—	—	—	—	—	—	—	—	—	4.3	45	49	0.44	0.01	—	63
Waste	—	—	—	—	—	—	—	—	—	—	—	304	0.00	304	30	0.00	—	1,065
Stationary	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23
Total	28	26	46	111	0.68	0.92	45	46	0.87	12	12	309	67,335	67,643	32	6.9	52	70,572

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	9.4	4.5	246	56	2.8	5.1	109	114	4.9	29	34	—	298,993	298,993	4.5	45	559	313,054

Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	42	37	24	612	1.6	0.51	176	176	0.47	44	45	—	162,251	162,251	3.8	2.9	269	163,492
Total	51	42	270	667	4.4	5.6	285	291	5.3	74	79	—	461,245	461,245	8.3	48	828	476,546
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	9.3	4.4	257	56	2.8	5.1	109	114	4.9	29	34	—	299,027	299,027	4.5	45	15	312,547
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	41	36	27	490	1.5	0.51	176	176	0.47	44	45	—	149,829	149,829	3.9	3.2	7.0	150,875
Total	50	40	284	546	4.3	5.6	285	291	5.3	74	79	—	448,856	448,856	8.4	48	21	463,423
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.5	0.70	41	8.7	0.44	0.80	17	18	0.76	4.5	5.3	—	42,704	42,704	0.64	6.4	34	44,668
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00

User Defined Industrial	6.5	5.8	4.5	83	0.24	0.08	28	28	0.08	7.1	7.1	—	22,269	22,269	0.57	0.47	17	22,442
Total	8.0	6.5	45	91	0.68	0.88	45	46	0.84	12	12	—	64,973	64,973	1.2	6.9	52	67,110

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	11,930	11,930	1.5	0.18	—	12,022
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,409	13,409	1.7	0.21	—	13,512
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	11,930	11,930	1.5	0.18	—	12,022

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,409	13,409	1.7	0.21	—	13,512
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,975	1,975	0.25	0.03	—	1,990
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	245	245	0.03	< 0.005	—	247
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,220	2,220	0.28	0.03	—	2,237

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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

Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	78	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	9.9	9.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	28	26	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Total	116	114	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	78	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	9.9	9.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	88	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	14	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.8	1.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.5	3.2	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74
Total	20	19	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	4.3	45	49	0.44	0.01	—	63
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.3	45	49	0.44	0.01	—	63

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	304	0.00	304	30	0.00	—	1,065
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	304	0.00	304	30	0.00	—	1,065

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23
Total	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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)

Vegetation	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
Unrefrigerated Warehouse-No Rail	250	124	116	77,808	23,657	11,725	11,005	7,352,852
Unrefrigerated Warehouse-No Rail	209	178	177	73,041	19,733	16,856	16,753	6,897,230
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	10,135	6,178	6,081	3,281,420	252,378	153,853	151,423	81,716,490
Unrefrigerated Warehouse-No Rail	872	406	380	268,402	82,412	38,395	35,927	25,361,318

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)

Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0

Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0
User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	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)
undefined	0.00	0.00	5,442,036	1,814,012	546,674

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Unrefrigerated Warehouse-No Rail	5,009,236	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,009,232	261	0.0330	0.0040	0.00
Parking Lot	2,069,148	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	6,678,974	261	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)
Unrefrigerated Warehouse-No Rail	4,492,797	18,027,154

Unrefrigerated Warehouse-No Rail	4,492,797	18,027,154
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	4,492,797	18,027,154

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	1,023	0.00
Unrefrigerated Warehouse-No Rail	1,023	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	1,364	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

Fire Pump	Diesel	1.00	1.00	50	300	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73

5.16.2. Process Boilers

5.17. User Defined

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	31	annual days of extreme heat
Extreme Precipitation	5.3	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	24	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	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	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	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
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	98
AQ-PM	37
AQ-DPM	2.9
Drinking Water	59

Lead Risk Housing	0.37
Pesticides	24
Toxic Releases	25
Traffic	81
Effect Indicators	—
CleanUp Sites	17
Groundwater	60
Haz Waste Facilities/Generators	68
Impaired Water Bodies	12
Solid Waste	95
Sensitive Population	—
Asthma	82
Cardio-vascular	93
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	20
Housing	30
Linguistic	9.5
Poverty	30
Unemployment	94

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	76.13242654
Employed	0.269472604
Median HI	29.16720133

Education	—
Bachelor's or higher	50.41704093
High school enrollment	100
Preschool enrollment	54.79276274
Transportation	—
Auto Access	38.61157449
Active commuting	50.49403311
Social	—
2-parent households	77.3643013
Voting	99.70486334
Neighborhood	—
Alcohol availability	93.750802
Park access	16.88694983
Retail density	8.456306942
Supermarket access	22.39189016
Tree canopy	6.172205826
Housing	—
Homeownership	97.18978571
Housing habitability	89.87552932
Low-inc homeowner severe housing cost burden	67.34248685
Low-inc renter severe housing cost burden	68.75401001
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	55.46002823
Arthritis	0.0
Asthma ER Admissions	15.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	12.4
Cognitively Disabled	11.3
Physically Disabled	0.6
Heart Attack ER Admissions	0.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	7.3
SLR Inundation Area	0.0
Children	99.4
Elderly	0.1
English Speaking	72.8
Foreign-born	11.0
Outdoor Workers	16.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.5

Traffic Density	66.8
Traffic Access	23.0
Other Indices	—
Hardship	68.2
Other Decision Support	—
2016 Voting	99.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67
Healthy Places Index Score for Project Location (b)	33
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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

8.1. Justifications

Screen	Justification

Operations: Vehicle Data	Trip Characteristics based on information provided in the Traffic Analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Energy Use	The Project will not utilize Natural Gas
Operations: Water and Waste Water	indoor and outdoor water usage based on WSA Report

APPENDIX 2:

CALEEMOD URBAN VILLAGE & INDUSTRIAL ALTERNATIVE OUTPUTS – OPTION A

15718 Beaumont Heights Urban Village & Industrial Option A Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15718 Beaumont Heights Urban Village & Industrial Option A
Operational Year	2032
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.5
Precipitation (days)	26
Location	33.907491, -116.977595
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5627
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Unrefrigerated Warehouse-No Rail	777	1000sqft	18	777,434	840,773	—	—	High-Cube Fulfillment (Non-Sort)

Unrefrigerated Warehouse-No Rail	777	1000sqft	18	777,434	840,773	—	—	High-Cube Fulfillment (Sort)
Parking Lot	6,025	Space	54	0.00	0.00	—	—	—
Other Asphalt Surfaces	155	Acre	155	0.00	0.00	—	—	—
User Defined Industrial	2,591	User Defined Unit	0.00	0.00	0.00	—	—	Passenger Cars
Unrefrigerated Warehouse-No Rail	1,037	1000sqft	24	1,036,578	840,773	—	—	Warehousing
Apartments Mid Rise	2,314	Dwelling Unit	61	2,221,440	0.00	—	7,474	—
Regional Shopping Center	4,199	1000sqft	96	4,199,184	0.00	—	—	—

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.	1,130	1,026	1,029	9,786	30	22	2,839	2,861	21	721	742	5,406	3,142,364	3,147,771	638	144	5,759	3,212,398
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,030	932	1,094	7,656	28	21	2,839	2,860	20	721	741	5,406	2,963,088	2,968,495	640	147	179	3,028,599

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	679	623	638	4,397	15	13	1,460	1,473	12	371	383	5,406	1,638,125	1,643,531	597	88	1,353	1,686,029
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	124	114	116	802	2.8	2.3	266	269	2.2	68	70	895	271,210	272,105	99	15	224	279,141

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	846	748	1,006	9,345	30	20	2,839	2,859	19	721	740	—	3,071,462	3,071,462	88	141	5,729	3,121,473
Area	280	275	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	66,165	66,165	7.7	0.78	—	66,590
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
Stationary	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	1,130	1,026	1,029	9,786	30	22	2,839	2,861	21	721	742	5,406	3,142,364	3,147,771	638	144	5,759	3,212,398
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	811	714	1,075	7,642	28	20	2,839	2,859	19	721	740	—	2,893,752	2,893,752	89	145	149	2,939,245
Area	215	215	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	66,165	66,165	7.7	0.78	—	66,590
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
Stationary	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	1,030	932	1,094	7,656	28	21	2,839	2,860	20	721	741	5,406	2,963,088	2,968,495	640	147	179	3,028,599
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	417	366	621	4,095	15	11	1,460	1,471	11	371	382	—	1,568,585	1,568,585	47	85	1,323	1,596,471
Area	260	256	2.5	293	0.02	0.40	—	0.40	0.30	—	0.30	—	1,072	1,072	0.04	0.01	—	1,076
Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	66,165	66,165	7.7	0.78	—	66,590
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
Stationary	0.30	0.27	0.75	0.69	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	138	138	0.01	< 0.005	0.00	138
Total	679	623	638	4,397	15	13	1,460	1,473	12	371	383	5,406	1,638,125	1,643,531	597	88	1,353	1,686,029
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	76	67	113	747	2.8	2.1	266	269	1.9	68	70	—	259,697	259,697	7.8	14	219	264,314
Area	47	47	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178
Energy	0.29	0.15	2.6	1.6	0.02	0.20	—	0.20	0.20	—	0.20	—	10,954	10,954	1.3	0.13	—	11,025
Water	—	—	—	—	—	—	—	—	—	—	—	132	358	490	14	0.33	—	926
Waste	—	—	—	—	—	—	—	—	—	—	—	763	0.00	763	76	0.00	—	2,671
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.0	5.0
Stationary	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23
Total	124	114	116	802	2.8	2.3	266	269	2.2	68	70	895	271,210	272,105	99	15	224	279,141

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.7	3.2	176	40	2.0	3.6	78	82	3.5	21	24	—	213,567	213,567	3.2	32	399	223,610
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	28	25	15	364	0.94	0.30	103	103	0.28	26	26	—	95,304	95,304	2.4	1.8	158	96,057
Apartments Mid Rise	38	34	34	359	1.1	0.62	103	104	0.59	26	27	—	107,858	107,858	3.5	4.3	201	109,436
Regional Shopping Center	774	686	782	8,582	26	15	2,555	2,570	14	648	662	—	2,654,734	2,654,734	79	103	4,971	2,692,369
Total	846	748	1,006	9,345	30	20	2,839	2,859	19	721	740	—	3,071,462	3,071,462	88	141	5,729	3,121,473

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.7	3.2	183	40	2.0	3.6	78	82	3.5	21	24	—	213,591	213,591	3.2	32	10	223,248
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	27	24	16	294	0.87	0.30	103	103	0.28	26	26	—	88,024	88,024	2.4	1.9	4.1	88,664
Apartments Mid Rise	36	33	36	297	0.99	0.63	103	104	0.59	26	27	—	101,235	101,235	3.6	4.5	5.2	102,659
Regional Shopping Center	741	654	839	7,012	24	15	2,555	2,570	14	648	662	—	2,490,903	2,490,903	80	106	129	2,524,673
Total	811	714	1,075	7,642	28	20	2,839	2,859	19	721	740	—	2,893,752	2,893,752	89	145	149	2,939,245
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.1	0.50	29	6.2	0.31	0.57	12	13	0.55	3.2	3.8	—	30,503	30,503	0.46	4.6	25	31,906
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00

User Defined Industrial	4.3	3.8	2.7	49	0.14	0.05	16	16	0.05	4.1	4.2	—	13,083	13,083	0.36	0.29	10.0	13,188
Apartments Mid Rise	6.4	5.7	6.5	54	0.18	0.11	18	18	0.10	4.6	4.7	—	16,416	16,416	0.57	0.72	14	16,660
Regional Shopping Center	64	57	75	637	2.2	1.3	220	221	1.3	56	57	—	199,695	199,695	6.4	8.5	170	202,560
Total	76	67	113	747	2.8	2.1	266	269	1.9	68	70	—	259,697	259,697	7.8	14	219	264,314

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	8,522	8,522	1.1	0.13	—	8,587
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	9,356	9,356	1.2	0.14	—	9,429
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	29,278	29,278	3.7	0.45	—	29,504
Total	—	—	—	—	—	—	—	—	—	—	—	—	48,634	48,634	6.2	0.75	—	49,010
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	8,522	8,522	1.1	0.13	—	8,587
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	9,356	9,356	1.2	0.14	—	9,429
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	29,278	29,278	3.7	0.45	—	29,504
Total	—	—	—	—	—	—	—	—	—	—	—	—	48,634	48,634	6.2	0.75	—	49,010
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,411	1,411	0.18	0.02	—	1,422
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	245	245	0.03	< 0.005	—	247
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,549	1,549	0.20	0.02	—	1,561
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	4,847	4,847	0.61	0.07	—	4,885
Total	—	—	—	—	—	—	—	—	—	—	—	—	8,052	8,052	1.0	0.12	—	8,114

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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

Other Asphalt Surfaces	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
User Defined Industrial	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
Apartments Mid Rise	0.88	0.44	7.5	3.2	0.05	0.61	—	0.61	0.61	—	0.61	—	9,561	9,561	0.85	0.02	—	9,588
Regional Shopping Center	0.73	0.37	6.7	5.6	0.04	0.51	—	0.51	0.51	—	0.51	—	7,970	7,970	0.71	0.02	—	7,992
Total	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	17,531	17,531	1.6	0.03	—	17,580
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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
Apartments Mid Rise	0.88	0.44	7.5	3.2	0.05	0.61	—	0.61	0.61	—	0.61	—	9,561	9,561	0.85	0.02	—	9,588

Regional Shopping Center	0.73	0.37	6.7	5.6	0.04	0.51	—	0.51	0.51	—	0.51	—	7,970	7,970	0.71	0.02	—	7,992
Total	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	17,531	17,531	1.6	0.03	—	17,580
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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
Apartments Mid Rise	0.16	0.08	1.4	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,583	1,583	0.14	< 0.005	—	1,587
Regional Shopping Center	0.13	0.07	1.2	1.0	0.01	0.09	—	0.09	0.09	—	0.09	—	1,320	1,320	0.12	< 0.005	—	1,323
Total	0.29	0.15	2.6	1.6	0.02	0.20	—	0.20	0.20	—	0.20	—	2,903	2,903	0.26	0.01	—	2,911

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	194	194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	22	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	65	60	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Total	280	275	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	194	194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	22	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	215	215	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	35	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	4.0	4.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	8.1	7.5	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178
Total	47	47	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	18	193	212	1.9	0.05	—	274
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	180	458	638	19	0.45	—	1,235
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	596	1,513	2,109	61	1.5	—	4,081
Total	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	18	193	212	1.9	0.05	—	274
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	180	458	638	19	0.45	—	1,235
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	596	1,513	2,109	61	1.5	—	4,081
Total	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.1	32	35	0.32	0.01	—	45
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	30	76	106	3.1	0.07	—	204
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	99	250	349	10	0.24	—	676
Total	—	—	—	—	—	—	—	—	—	—	—	132	358	490	14	0.33	—	926

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,313	0.00	1,313	131	0.00	—	4,593
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Apartments	—	—	—	—	—	—	—	—	—	—	—	922	0.00	922	92	0.00	—	3,226
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,376	0.00	2,376	237	0.00	—	8,314
Total	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,313	0.00	1,313	131	0.00	—	4,593
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	922	0.00	922	92	0.00	—	3,226
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,376	0.00	2,376	237	0.00	—	8,314
Total	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	217	0.00	217	22	0.00	—	760
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	153	0.00	153	15	0.00	—	534
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	393	0.00	393	39	0.00	—	1,376
Total	—	—	—	—	—	—	—	—	—	—	—	763	0.00	763	76	0.00	—	2,671

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 Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14

Regional	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.4	2.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.6	2.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.0	5.0

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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Total	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23

Total	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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)

Vegetation	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
Unrefrigerated Warehouse-No Rail	179	89	83	55,577	16,898	8,375	7,861	5,252,035
Unrefrigerated Warehouse-No Rail	149	127	127	52,172	14,095	12,040	11,966	4,926,595
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	7,239	4,413	4,343	2,343,871	147,952	90,194	88,769	47,904,692
Unrefrigerated Warehouse-No Rail	623	290	272	191,716	58,866	27,425	25,662	18,115,230
Apartments Mid Rise	10,506	10,575	8,724	3,745,242	145,147	146,106	120,529	51,744,927
Regional Shopping Center	76,341	195,682	79,659	34,260,272	1,408,804	3,611,127	1,470,023	632,241,111

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0

Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0

User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	0	0
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	0	0
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Regional Shopping Center	Wood Fireplaces	0	0

Regional Shopping Center	Gas Fireplaces	0	0
Regional Shopping Center	Propane Fireplaces	0	0
Regional Shopping Center	Electric Fireplaces	0	0
Regional Shopping Center	No Fireplaces	0	0
Regional Shopping Center	Conventional Wood Stoves	0	0
Regional Shopping Center	Catalytic Wood Stoves	0	0
Regional Shopping Center	Non-Catalytic Wood Stoves	0	0
Regional Shopping Center	Pellet Wood Stoves	0	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)
undefined	4,498,416	1,499,472	10,185,945	3,395,315	546,674

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Unrefrigerated Warehouse-No Rail	3,578,024	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,578,024	261	0.0330	0.0040	0.00
Parking Lot	2,069,148	261	0.0330	0.0040	0.00

Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	4,770,696	261	0.0330	0.0040	0.00
Apartments Mid Rise	13,095,293	261	0.0330	0.0040	29,833,968
Regional Shopping Center	40,977,292	261	0.0330	0.0040	24,868,286

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	3,209,141	12,876,539
Unrefrigerated Warehouse-No Rail	3,209,141	12,876,539
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	3,209,141	12,876,539
Apartments Mid Rise	94,119,115	0.00
Regional Shopping Center	311,044,147	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	731	0.00
Unrefrigerated Warehouse-No Rail	731	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	974	0.00
Apartments Mid Rise	1,711	0.00
Regional Shopping Center	4,409	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.0	4.0	18
Regional Shopping Center	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

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
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73

Fire Pump	Diesel	1.00	1.00	50	300	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73

5.16.2. Process Boilers

5.17. User Defined

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	31	annual days of extreme heat
Extreme Precipitation	5.3	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	24	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	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	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	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
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	98
AQ-PM	37
AQ-DPM	2.9
Drinking Water	59
Lead Risk Housing	0.37

Pesticides	24
Toxic Releases	25
Traffic	81
Effect Indicators	—
CleanUp Sites	17
Groundwater	60
Haz Waste Facilities/Generators	68
Impaired Water Bodies	12
Solid Waste	95
Sensitive Population	—
Asthma	82
Cardio-vascular	93
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	20
Housing	30
Linguistic	9.5
Poverty	30
Unemployment	94

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	76.13242654
Employed	0.269472604
Median HI	29.16720133
Education	—

Bachelor's or higher	50.41704093
High school enrollment	100
Preschool enrollment	54.79276274
Transportation	—
Auto Access	38.61157449
Active commuting	50.49403311
Social	—
2-parent households	77.3643013
Voting	99.70486334
Neighborhood	—
Alcohol availability	93.750802
Park access	16.88694983
Retail density	8.456306942
Supermarket access	22.39189016
Tree canopy	6.172205826
Housing	—
Homeownership	97.18978571
Housing habitability	89.87552932
Low-inc homeowner severe housing cost burden	67.34248685
Low-inc renter severe housing cost burden	68.75401001
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	55.46002823
Arthritis	0.0
Asthma ER Admissions	15.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0

Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	12.4
Cognitively Disabled	11.3
Physically Disabled	0.6
Heart Attack ER Admissions	0.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	7.3
SLR Inundation Area	0.0
Children	99.4
Elderly	0.1
English Speaking	72.8
Foreign-born	11.0
Outdoor Workers	16.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.5
Traffic Density	66.8

Traffic Access	23.0
Other Indices	—
Hardship	68.2
Other Decision Support	—
2016 Voting	99.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67
Healthy Places Index Score for Project Location (b)	33
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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

8.1. Justifications

Screen	Justification
Operations: Vehicle Data	Trip Characteristics based on information provided in the Traffic Analysis

Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Hearths	Project will not utilize fireplaces or wood stoves
Operations: Energy Use	The industrial portion of the Project will not utilize Natural Gas
Operations: Water and Waste Water	indoor and outdoor water usage based on WSA Report
Operations: Refrigerants	As of 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

APPENDIX 3:

CALEEMOD REDUCED DENSITY ALTERNATIVE OUTPUTS – OPTION B

15718 Beaumont Heights Reduced Density Option B Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15718 Beaumont Heights Reduced Density Option B
Operational Year	2032
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.5
Precipitation (days)	26
Location	33.907491, -116.977595
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5627
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Refrigerated Warehouse-No Rail	700	1000sqft	16	700,000	630,580	—	—	Cold Storage

Unrefrigerated Warehouse-No Rail	1,088	1000sqft	25	1,088,408	630,580	—	—	Non-Sort
Unrefrigerated Warehouse-No Rail	1,088	1000sqft	25	1,088,407	630,580	—	—	Sort
Parking Lot	6,025	Space	54	0.00	0.00	—	—	—
Other Asphalt Surfaces	155	Acre	155	0.00	0.00	—	—	—
User Defined Industrial	3,628	User Defined Unit	0.00	0.00	0.00	—	—	Passenger Vehicles
Unrefrigerated Warehouse-No Rail	751	1000sqft	17	751,209	630,580	—	—	Warehousing

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.	191	177	373	896	4.7	9.1	299	308	8.8	77	86	1,864	512,460	514,323	198	50	1,621	535,808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	162	150	385	614	4.5	8.8	299	307	8.6	77	86	1,864	499,198	501,061	198	50	737	521,734
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	157	146	280	641	4.0	5.8	262	268	5.5	68	73	1,864	437,665	439,528	197	44	1,059	458,625

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29	27	51	117	0.72	1.1	48	49	1.0	12	13	309	72,460	72,769	33	7.3	175	75,931

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	53	44	287	688	4.6	6.0	299	304	5.7	77	83	—	479,489	479,489	8.6	50	908	495,374
Area	116	114	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,045	22,045	2.8	0.34	—	22,215
Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Stationary	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Total	191	177	373	896	4.7	9.1	299	308	8.8	77	86	1,864	512,460	514,323	198	50	1,621	535,808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	52	42	301	565	4.4	6.0	299	304	5.7	77	83	—	466,876	466,876	8.6	50	24	481,951
Area	88	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,045	22,045	2.8	0.34	—	22,215
Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Stationary	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Total	162	150	385	614	4.5	8.8	299	307	8.6	77	86	1,864	499,198	501,061	198	50	737	521,734

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46	38	267	526	3.9	5.2	262	267	5.0	68	73	—	413,534	413,534	7.7	44	346	427,061
Area	108	106	0.91	108	0.01	0.19	—	0.19	0.15	—	0.15	—	444	444	0.02	< 0.005	—	446
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,045	22,045	2.8	0.34	—	22,215
Water	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Waste	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Stationary	2.9	2.7	12	6.8	0.01	0.39	0.00	0.39	0.39	0.00	0.39	0.00	1,371	1,371	0.06	0.01	0.00	1,375
Total	157	146	280	641	4.0	5.8	262	268	5.5	68	73	1,864	437,665	439,528	197	44	1,059	458,625
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.5	6.9	49	96	0.72	0.95	48	49	0.91	12	13	—	68,465	68,465	1.3	7.2	57	70,705
Area	20	19	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,650	3,650	0.46	0.06	—	3,678
Water	—	—	—	—	—	—	—	—	—	—	—	4.3	45	49	0.44	0.01	—	63
Waste	—	—	—	—	—	—	—	—	—	—	—	304	0.00	304	30	0.00	—	1,065
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Stationary	0.54	0.49	2.1	1.2	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	227	227	0.01	< 0.005	0.00	228
Total	29	27	51	117	0.72	1.1	48	49	1.0	12	13	309	72,460	72,769	33	7.3	175	75,931

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	4.2	2.4	94	28	1.0	2.0	45	47	1.9	12	14	—	109,692	109,692	1.6	16	251	114,694
Unrefrigerated Warehouse-No Rail	6.5	3.1	168	38	1.9	3.5	75	78	3.3	20	23	—	204,606	204,606	3.1	31	383	214,227
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	43	38	25	623	1.6	0.52	179	179	0.48	45	46	—	165,190	165,190	3.9	3.0	274	166,453
Total	53	44	287	688	4.6	6.0	299	304	5.7	77	83	—	479,489	479,489	8.6	50	908	495,374
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	4.1	2.3	98	27	1.0	2.0	45	47	1.9	12	14	—	109,703	109,703	1.6	16	6.5	114,463
Unrefrigerated Warehouse-No Rail	6.4	3.0	176	38	1.9	3.5	75	78	3.3	20	23	—	204,629	204,629	3.1	31	9.9	213,880
Parking Lot	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	0.00	0.00	0.00

Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	41	37	28	499	1.5	0.52	179	179	0.48	45	46	—	152,543	152,543	4.0	3.2	7.1	153,608
Total	52	42	301	565	4.4	6.0	299	304	5.7	77	83	—	466,876	466,876	8.6	50	24	481,951
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.66	0.37	16	4.4	0.16	0.31	7.1	7.4	0.30	1.9	2.2	—	15,864	15,864	0.23	2.3	16	16,567
Unrefrigerated Warehouse-No Rail	1.0	0.49	28	6.0	0.30	0.55	12	12	0.53	3.1	3.7	—	29,525	29,525	0.44	4.4	24	30,882
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	6.8	6.0	4.7	86	0.25	0.09	29	29	0.08	7.3	7.4	—	23,077	23,077	0.59	0.49	18	23,256
Total	8.5	6.9	49	96	0.72	0.95	48	49	0.91	12	13	—	68,465	68,465	1.3	7.2	57	70,705

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.4	0.17	—	11,022
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	9,628	9,628	1.2	0.15	—	9,703
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	22,045	22,045	2.8	0.34	—	22,215
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.4	0.17	—	11,022
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	9,628	9,628	1.2	0.15	—	9,703
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	22,045	22,045	2.8	0.34	—	22,215
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,594	1,594	0.20	0.02	—	1,606
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	245	245	0.03	< 0.005	—	247
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,650	3,650	0.46	0.06	—	3,678

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigerated	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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	0.00	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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	78	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	9.9	9.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	28	26	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Total	116	114	1.3	158	0.01	0.28	—	0.28	0.21	—	0.21	—	649	649	0.03	0.01	—	651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	78	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	9.9	9.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	88	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	14	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.8	1.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.5	3.2	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74
Total	20	19	0.17	20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74	74	< 0.005	< 0.005	—	74

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	6.5	68	74	0.67	0.02	—	96
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	19	203	222	2.0	0.05	—	288
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	6.5	68	74	0.67	0.02	—	96

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	19	203	222	2.0	0.05	—	288
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	26	271	296	2.7	0.07	—	383
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1.1	11	12	0.11	< 0.005	—	16
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.2	34	37	0.33	0.01	—	48
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.3	45	49	0.44	0.01	—	63

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35	0.00	—	1,241
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,483	0.00	1,483	148	0.00	—	5,190
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35	0.00	—	1,241
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,483	0.00	1,483	148	0.00	—	5,190

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,838	0.00	1,838	184	0.00	—	6,430
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	59	0.00	59	5.9	0.00	—	205
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	246	0.00	246	25	0.00	—	859
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	304	0.00	304	30	0.00	—	1,065

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118

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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Emergency Generator	19	18	79	45	0.08	2.6	0.00	2.6	2.6	0.00	2.6	0.00	9,000	9,000	0.36	0.07	0.00	9,030
Total	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011

Emergency	19	18	79	45	0.08	2.6	0.00	2.6	2.6	0.00	2.6	0.00	9,000	9,000	0.36	0.07	0.00	9,030
Total	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23
Emergency Generator	0.48	0.44	2.0	1.1	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	204	204	0.01	< 0.005	0.00	205
Total	0.54	0.49	2.1	1.2	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	227	227	0.01	< 0.005	0.00	228

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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)

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Refrigerated Warehouse-No Rail	526	300	287	167,827	51,503	29,313	28,080	16,420,194
Unrefrigerated Warehouse-No Rail	250	124	116	77,808	23,657	11,725	11,005	7,352,852
Unrefrigerated Warehouse-No Rail	209	178	177	73,041	19,733	16,856	16,753	6,897,230
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	10,318	6,875	6,748	3,400,430	256,949	171,209	168,047	84,680,178
Unrefrigerated Warehouse-No Rail	452	210	197	139,132	42,722	19,871	18,593	13,143,847

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Refrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Refrigerated Warehouse-No Rail	Gas Fireplaces	0	0

Refrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Refrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Refrigerated Warehouse-No Rail	No Fireplaces	0	0
Refrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0

Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0
User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0

Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	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)
undefined	0.00	0.00	5,442,036	1,814,012	546,674

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Refrigerated Warehouse-No Rail	15,308,685	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,009,236	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,009,232	261	0.0330	0.0040	0.00
Parking Lot	2,069,148	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00

User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,457,328	261	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)
Refrigerated Warehouse-No Rail	3,369,598	13,520,366
Unrefrigerated Warehouse-No Rail	3,369,598	13,520,366
Unrefrigerated Warehouse-No Rail	3,369,598	13,520,366
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	3,369,598	13,520,366

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	658	0.00
Unrefrigerated Warehouse-No Rail	1,023	0.00
Unrefrigerated Warehouse-No Rail	1,023	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	706	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.5	7.5	7.5	25

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73

5.16.2. Process Boilers

5.17. User Defined

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	31	annual days of extreme heat
Extreme Precipitation	5.3	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	24	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	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	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	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
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	98
AQ-PM	37
AQ-DPM	2.9
Drinking Water	59
Lead Risk Housing	0.37
Pesticides	24
Toxic Releases	25
Traffic	81
Effect Indicators	—
CleanUp Sites	17
Groundwater	60
Haz Waste Facilities/Generators	68
Impaired Water Bodies	12
Solid Waste	95

Sensitive Population	—
Asthma	82
Cardio-vascular	93
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	20
Housing	30
Linguistic	9.5
Poverty	30
Unemployment	94

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	76.13242654
Employed	0.269472604
Median HI	29.16720133
Education	—
Bachelor's or higher	50.41704093
High school enrollment	100
Preschool enrollment	54.79276274
Transportation	—
Auto Access	38.61157449
Active commuting	50.49403311
Social	—
2-parent households	77.3643013
Voting	99.70486334

Neighborhood	—
Alcohol availability	93.750802
Park access	16.88694983
Retail density	8.456306942
Supermarket access	22.39189016
Tree canopy	6.172205826
Housing	—
Homeownership	97.18978571
Housing habitability	89.87552932
Low-inc homeowner severe housing cost burden	67.34248685
Low-inc renter severe housing cost burden	68.75401001
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	55.46002823
Arthritis	0.0
Asthma ER Admissions	15.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	12.4
Cognitively Disabled	11.3
Physically Disabled	0.6
Heart Attack ER Admissions	0.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0

Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	7.3
SLR Inundation Area	0.0
Children	99.4
Elderly	0.1
English Speaking	72.8
Foreign-born	11.0
Outdoor Workers	16.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.5
Traffic Density	66.8
Traffic Access	23.0
Other Indices	—
Hardship	68.2
Other Decision Support	—
2016 Voting	99.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67

Healthy Places Index Score for Project Location (b)	33
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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

8.1. Justifications

Screen	Justification
Operations: Vehicle Data	Trip Characteristics based on information provided in the Traffic Analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Energy Use	The Project will not utilize Natural Gas
Operations: Water and Waste Water	indoor and outdoor water usage based on WSA Report
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively

APPENDIX 4:

CALEEMOD URBAN VILLAGE & INDUSTRIAL ALTERNATIVE OUTPUTS – OPTION B

15718 Beaumont Heights Urban Village & Industrial Option B Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15718 Beaumont Heights Urban Village & Industrial Option B
Operational Year	2032
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.5
Precipitation (days)	26
Location	33.907491, -116.977595
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5627
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Refrigerated Warehouse-No Rail	500	1000sqft	11	500,000	630,580	—	—	Cold Storage

Unrefrigerated Warehouse-No Rail	777	1000sqft	18	777,434	630,580	—	—	Non-Sort
Unrefrigerated Warehouse-No Rail	777	1000sqft	18	777,434	630,580	—	—	Sort
Parking Lot	6,025	Space	54	0.00	0.00	—	—	—
Other Asphalt Surfaces	155	Acre	155	0.00	0.00	—	—	—
User Defined Industrial	2,591	User Defined Unit	0.00	0.00	0.00	—	—	Passenger Vehicles
Unrefrigerated Warehouse-No Rail	537	1000sqft	12	536,578	630,580	—	—	Warehousing
Apartments Mid Rise	2,314	Dwelling Unit	61	2,221,440	0.00	—	7,474	—
Regional Shopping Center	4,199	1000sqft	96	4,199,184	0.00	—	—	—

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.	1,150	1,045	1,120	9,845	30	25	2,848	2,873	23	724	747	5,406	3,170,191	3,175,597	640	145	6,325	3,241,227
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	1,051	950	1,185	7,713	29	24	2,848	2,872	23	724	747	5,406	2,990,784	2,996,190	641	149	690	3,057,243
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	683	627	662	4,419	16	13	1,470	1,484	13	374	387	5,406	1,659,973	1,665,379	598	89	1,887	1,708,880
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	125	114	121	807	2.8	2.5	268	271	2.3	68	71	895	274,827	275,722	99	15	312	282,925

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	847	749	1,018	9,359	30	20	2,848	2,868	19	724	743	—	3,084,121	3,084,121	88	142	5,785	3,134,546
Area	280	275	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	72,334	72,334	8.5	0.87	—	72,806
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Stationary	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Total	1,150	1,045	1,120	9,845	30	25	2,848	2,873	23	724	747	5,406	3,170,191	3,175,597	640	145	6,325	3,241,227
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	812	715	1,087	7,655	28	20	2,848	2,868	19	724	743	—	2,906,279	2,906,279	90	146	150	2,952,133

Area	215	215	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	72,334	72,334	8.5	0.87	—	72,806
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Stationary	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Total	1,051	950	1,185	7,713	29	24	2,848	2,872	23	724	747	5,406	2,990,784	2,996,190	641	149	690	3,057,243
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	419	367	634	4,111	15	12	1,470	1,482	11	374	385	—	1,583,032	1,583,032	47	87	1,347	1,611,359
Area	260	256	2.5	293	0.02	0.40	—	0.40	0.30	—	0.30	—	1,072	1,072	0.04	0.01	—	1,076
Energy	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	72,334	72,334	8.5	0.87	—	72,806
Water	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Waste	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Stationary	2.9	2.7	12	6.8	0.01	0.39	0.00	0.39	0.39	0.00	0.39	0.00	1,371	1,371	0.06	0.01	0.00	1,375
Total	683	627	662	4,419	16	13	1,470	1,484	13	374	387	5,406	1,659,973	1,665,379	598	89	1,887	1,708,880
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	76	67	116	750	2.8	2.1	268	270	2.0	68	70	—	262,089	262,089	7.8	14	223	266,779
Area	47	47	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178
Energy	0.29	0.15	2.6	1.6	0.02	0.20	—	0.20	0.20	—	0.20	—	11,976	11,976	1.4	0.14	—	12,054
Water	—	—	—	—	—	—	—	—	—	—	—	132	358	490	14	0.33	—	926
Waste	—	—	—	—	—	—	—	—	—	—	—	763	0.00	763	76	0.00	—	2,671
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	89	89
Stationary	0.54	0.49	2.1	1.2	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	227	227	0.01	< 0.005	0.00	228

Total	125	114	121	807	2.8	2.5	268	271	2.3	68	71	895	274,827	275,722	99	15	312	282,925

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	3.0	1.7	67	20	0.73	1.4	32	33	1.3	8.6	9.9	—	78,352	78,352	1.1	11	179	81,924
Unrefrigerated Warehouse-No Rail	4.6	2.2	120	27	1.4	2.5	53	56	2.4	14	17	—	146,147	146,147	2.2	22	273	153,020
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	28	25	15	371	0.96	0.31	105	105	0.28	26	27	—	97,030	97,030	2.4	1.8	161	97,797
Apartments Mid Rise	38	34	34	359	1.1	0.62	103	104	0.59	26	27	—	107,858	107,858	3.5	4.3	201	109,436

Regional	774	686	782	8,582	26	15	2,555	2,570	14	648	662	—	2,654,734	2,654,734	79	103	4,971	2,692,369
Total	847	749	1,018	9,359	30	20	2,848	2,868	19	724	743	—	3,084,121	3,084,121	88	142	5,785	3,134,546
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	3.0	1.7	70	20	0.73	1.4	32	33	1.3	8.6	9.9	—	78,360	78,360	1.1	11	4.7	81,759
Unrefrigerated Warehouse-No Rail	4.6	2.2	125	27	1.4	2.5	53	56	2.4	14	17	—	146,164	146,164	2.2	22	7.1	152,772
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	27	24	17	299	0.89	0.31	105	105	0.28	26	27	—	89,618	89,618	2.5	2.0	4.2	90,270
Apartments Mid Rise	36	33	36	297	0.99	0.63	103	104	0.59	26	27	—	101,235	101,235	3.6	4.5	5.2	102,659
Regional Shopping Center	741	654	839	7,012	24	15	2,555	2,570	14	648	662	—	2,490,903	2,490,903	80	106	129	2,524,673
Total	812	715	1,087	7,655	28	20	2,848	2,868	19	724	743	—	2,906,279	2,906,279	90	146	150	2,952,133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigerated Wareho Rail	0.47	0.27	11	3.1	0.12	0.22	5.0	5.3	0.21	1.4	1.6	—	11,331	11,331	0.16	1.6	11	11,833
Unrefrigerated Warehouse-No Rail	0.73	0.35	20	4.3	0.22	0.39	8.4	8.8	0.38	2.2	2.6	—	21,089	21,089	0.32	3.2	17	22,059
Parking Lot	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	0.00	0.00	0.00
Other Asphalt Surfaces	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	0.00	0.00	0.00
User Defined Industrial	4.4	4.0	2.8	51	0.15	0.05	17	17	0.05	4.3	4.3	—	13,557	13,557	0.37	0.30	10	13,666
Apartments Mid Rise	6.4	5.7	6.5	54	0.18	0.11	18	18	0.10	4.6	4.7	—	16,416	16,416	0.57	0.72	14	16,660
Regional Shopping Center	64	57	75	637	2.2	1.3	220	221	1.3	56	57	—	199,695	199,695	6.4	8.5	170	202,560
Total	76	67	116	750	2.8	2.1	268	270	2.0	68	70	—	262,089	262,089	7.8	14	223	266,779

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	7,813	7,813	0.99	0.12	—	7,873
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,877	6,877	0.87	0.11	—	6,931
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	9,356	9,356	1.2	0.14	—	9,429
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	29,278	29,278	3.7	0.45	—	29,504
Total	—	—	—	—	—	—	—	—	—	—	—	—	54,803	54,803	6.9	0.84	—	55,227
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	7,813	7,813	0.99	0.12	—	7,873
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,877	6,877	0.87	0.11	—	6,931

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,478	1,478	0.19	0.02	—	1,490
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	9,356	9,356	1.2	0.14	—	9,429
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	29,278	29,278	3.7	0.45	—	29,504
Total	—	—	—	—	—	—	—	—	—	—	—	—	54,803	54,803	6.9	0.84	—	55,227
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,293	1,293	0.16	0.02	—	1,303
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,139	1,139	0.14	0.02	—	1,147
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	245	245	0.03	< 0.005	—	247
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,549	1,549	0.20	0.02	—	1,561
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	4,847	4,847	0.61	0.07	—	4,885
Total	—	—	—	—	—	—	—	—	—	—	—	—	9,073	9,073	1.1	0.14	—	9,143

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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

Apartments Mid Rise	0.88	0.44	7.5	3.2	0.05	0.61	—	0.61	0.61	—	0.61	—	9,561	9,561	0.85	0.02	—	9,588
Regional Shopping Center	0.73	0.37	6.7	5.6	0.04	0.51	—	0.51	0.51	—	0.51	—	7,970	7,970	0.71	0.02	—	7,992
Total	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	17,531	17,531	1.6	0.03	—	17,580
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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
Apartments Mid Rise	0.88	0.44	7.5	3.2	0.05	0.61	—	0.61	0.61	—	0.61	—	9,561	9,561	0.85	0.02	—	9,588
Regional Shopping Center	0.73	0.37	6.7	5.6	0.04	0.51	—	0.51	0.51	—	0.51	—	7,970	7,970	0.71	0.02	—	7,992

Total	1.6	0.81	14	8.8	0.09	1.1	—	1.1	1.1	—	1.1	—	17,531	17,531	1.6	0.03	—	17,580
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Other Asphalt Surfaces	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
User Defined Industrial	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
Apartments Mid Rise	0.16	0.08	1.4	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,583	1,583	0.14	< 0.005	—	1,587
Regional Shopping Center	0.13	0.07	1.2	1.0	0.01	0.09	—	0.09	0.09	—	0.09	—	1,320	1,320	0.12	< 0.005	—	1,323
Total	0.29	0.15	2.6	1.6	0.02	0.20	—	0.20	0.20	—	0.20	—	2,903	2,903	0.26	0.01	—	2,911

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	194	194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	22	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	65	60	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Total	280	275	3.7	427	0.02	0.58	—	0.58	0.44	—	0.44	—	1,565	1,565	0.07	0.01	—	1,571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	194	194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	22	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	215	215	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	35	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	4.0	4.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	8.1	7.5	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178
Total	47	47	0.46	53	< 0.005	0.07	—	0.07	0.06	—	0.06	—	178	178	0.01	< 0.005	—	178

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	4.6	48	53	0.48	0.01	—	68
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	14	145	159	1.4	0.04	—	205
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	180	458	638	19	0.45	—	1,235

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	596	1,513	2,109	61	1.5	—	4,081
Total	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	4.6	48	53	0.48	0.01	—	68
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	14	145	159	1.4	0.04	—	205
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	180	458	638	19	0.45	—	1,235
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	596	1,513	2,109	61	1.5	—	4,081
Total	—	—	—	—	—	—	—	—	—	—	—	795	2,164	2,959	82	2.0	—	5,590
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	0.76	8.0	8.8	0.08	< 0.005	—	11
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.3	24	26	0.24	0.01	—	34
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	30	76	106	3.1	0.07	—	204
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	99	250	349	10	0.24	—	676
Total	—	—	—	—	—	—	—	—	—	—	—	132	358	490	14	0.33	—	926

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25	0.00	—	886
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,060	0.00	1,060	106	0.00	—	3,707
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	922	0.00	922	92	0.00	—	3,226
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,376	0.00	2,376	237	0.00	—	8,314
Total	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25	0.00	—	886
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,060	0.00	1,060	106	0.00	—	3,707

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	922	0.00	922	92	0.00	—	3,226
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,376	0.00	2,376	237	0.00	—	8,314
Total	—	—	—	—	—	—	—	—	—	—	—	4,611	0.00	4,611	461	0.00	—	16,133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	42	0.00	42	4.2	0.00	—	147
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	175	0.00	175	18	0.00	—	614
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	153	0.00	153	15	0.00	—	534
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	393	0.00	393	39	0.00	—	1,376
Total	—	—	—	—	—	—	—	—	—	—	—	763	0.00	763	76	0.00	—	2,671

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84	84
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.4	2.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.6	2.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	89	89

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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Emergency Generator	19	18	79	45	0.08	2.6	0.00	2.6	2.6	0.00	2.6	0.00	9,000	9,000	0.36	0.07	0.00	9,030
Total	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.2	2.0	5.5	5.0	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011

Emergency	19	18	79	45	0.08	2.6	0.00	2.6	2.6	0.00	2.6	0.00	9,000	9,000	0.36	0.07	0.00	9,030
Total	21	20	84	50	0.09	2.9	0.00	2.9	2.9	0.00	2.9	0.00	10,007	10,007	0.40	0.08	0.00	10,040
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	23	23	< 0.005	< 0.005	0.00	23
Emergency Generator	0.48	0.44	2.0	1.1	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	204	204	0.01	< 0.005	0.00	205
Total	0.54	0.49	2.1	1.2	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	227	227	0.01	< 0.005	0.00	228

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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)

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Refrigerated Warehouse-No Rail	376	214	205	119,876	36,788	20,938	20,057	11,728,710
Unrefrigerated Warehouse-No Rail	179	89	83	55,577	16,898	8,375	7,861	5,252,035
Unrefrigerated Warehouse-No Rail	149	127	127	52,172	14,095	12,040	11,966	4,926,595
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	7,370	4,911	4,820	2,428,878	150,632	100,368	98,514	49,642,096
Unrefrigerated Warehouse-No Rail	323	150	141	99,380	30,516	14,193	13,281	9,388,464
Apartments Mid Rise	10,506	10,575	8,724	3,745,242	145,147	146,106	120,529	51,744,927
Regional Shopping Center	76,341	195,682	79,659	34,260,272	1,408,804	3,611,127	1,470,023	632,241,111

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Refrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Refrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Refrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Refrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Refrigerated Warehouse-No Rail	No Fireplaces	0	0
Refrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Refrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0

Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0
User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0

Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	0	0
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	0	0
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Regional Shopping Center	Wood Fireplaces	0	0
Regional Shopping Center	Gas Fireplaces	0	0
Regional Shopping Center	Propane Fireplaces	0	0
Regional Shopping Center	Electric Fireplaces	0	0
Regional Shopping Center	No Fireplaces	0	0
Regional Shopping Center	Conventional Wood Stoves	0	0
Regional Shopping Center	Catalytic Wood Stoves	0	0
Regional Shopping Center	Non-Catalytic Wood Stoves	0	0
Regional Shopping Center	Pellet Wood Stoves	0	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)
undefined	4,498,416	1,499,472	10,185,945	3,395,315	546,674

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Refrigerated Warehouse-No Rail	10,934,775	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,578,024	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,578,024	261	0.0330	0.0040	0.00
Parking Lot	2,069,148	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	2,469,521	261	0.0330	0.0040	0.00
Apartments Mid Rise	13,095,293	261	0.0330	0.0040	29,833,968
Regional Shopping Center	40,977,292	261	0.0330	0.0040	24,868,286

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	2,406,856	9,657,404
Unrefrigerated Warehouse-No Rail	2,406,856	9,657,404
Unrefrigerated Warehouse-No Rail	2,406,856	9,657,404
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	2,406,856	9,657,404
Apartments Mid Rise	94,119,115	0.00
Regional Shopping Center	311,044,147	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	470	0.00
Unrefrigerated Warehouse-No Rail	731	0.00
Unrefrigerated Warehouse-No Rail	731	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	504	0.00
Apartments Mid Rise	1,711	0.00
Regional Shopping Center	4,409	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.5	7.5	7.5	25
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.0	4.0	18
Regional Shopping Center	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

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
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73
Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73
Fire Pump	Diesel	1.00	1.00	50	300	0.73

Emergency Generator	Diesel	1.00	1.00	50	2,680	0.73

5.16.2. Process Boilers

5.17. User Defined

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	31	annual days of extreme heat
Extreme Precipitation	5.3	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	24	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	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	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	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
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	98
AQ-PM	37
AQ-DPM	2.9
Drinking Water	59
Lead Risk Housing	0.37
Pesticides	24
Toxic Releases	25

Traffic	81
Effect Indicators	—
CleanUp Sites	17
Groundwater	60
Haz Waste Facilities/Generators	68
Impaired Water Bodies	12
Solid Waste	95
Sensitive Population	—
Asthma	82
Cardio-vascular	93
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	20
Housing	30
Linguistic	9.5
Poverty	30
Unemployment	94

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	76.13242654
Employed	0.269472604
Median HI	29.16720133
Education	—
Bachelor's or higher	50.41704093
High school enrollment	100

Preschool enrollment	54.79276274
Transportation	—
Auto Access	38.61157449
Active commuting	50.49403311
Social	—
2-parent households	77.3643013
Voting	99.70486334
Neighborhood	—
Alcohol availability	93.750802
Park access	16.88694983
Retail density	8.456306942
Supermarket access	22.39189016
Tree canopy	6.172205826
Housing	—
Homeownership	97.18978571
Housing habitability	89.87552932
Low-inc homeowner severe housing cost burden	67.34248685
Low-inc renter severe housing cost burden	68.75401001
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	55.46002823
Arthritis	0.0
Asthma ER Admissions	15.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0

Diagnosed Diabetes	0.0
Life Expectancy at Birth	12.4
Cognitively Disabled	11.3
Physically Disabled	0.6
Heart Attack ER Admissions	0.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	7.3
SLR Inundation Area	0.0
Children	99.4
Elderly	0.1
English Speaking	72.8
Foreign-born	11.0
Outdoor Workers	16.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.5
Traffic Density	66.8
Traffic Access	23.0
Other Indices	—

Hardship	68.2
Other Decision Support	—
2016 Voting	99.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67
Healthy Places Index Score for Project Location (b)	33
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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

8.1. Justifications

Screen	Justification
Operations: Vehicle Data	Trip Characteristics based on information provided in the Traffic Analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks

Operations: Hearths	Project will not include wood fireplaces or stoves.
Operations: Energy Use	The industrial portions of the Project will not utilize Natural Gas
Operations: Water and Waste Water	indoor and outdoor water usage based on WSA Report
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. As of 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.