

DATE: January 27, 2025
TO: Meaghan Truman, EPD Solutions, Inc.
FROM: Bill Lawson, Urban Crossroads, Inc.
JOB NO: 15605-08 EIR Alt Noise

HARVEST LANDING PHASE 2 RESIDENTIAL ALTERNATIVE NOISE ASSESSMENT

Urban Crossroads, Inc. is pleased to provide the following Harvest Landing Phase 2 Residential Alternative Noise Assessment. The Project site includes approximately 358.28 acres and is generally bounded by I-215 to the west, Perris Boulevard to the east, Nuevo Road to the south, and Placentia Avenue to the north within the City of Perris. On January 14, 2025, Urban Crossroads, Inc. prepared a detailed noise and vibration impact analysis (2025 Noise Study) report for the proposed Harvest Landing Retail Center & Business Park Project. The proposed Project evaluated in the 2025 Noise Study included a total buildout of approximately 5,735,535 square feet of Multiple Business uses and 428,507 square feet of Commercial uses as shown on Exhibit 1. The purpose of this evaluation is to assess the potential Project related noise impacts associated with Phase 2 Residential Alternative.

PHASE 2 RESIDENTIAL ALTERNATIVE

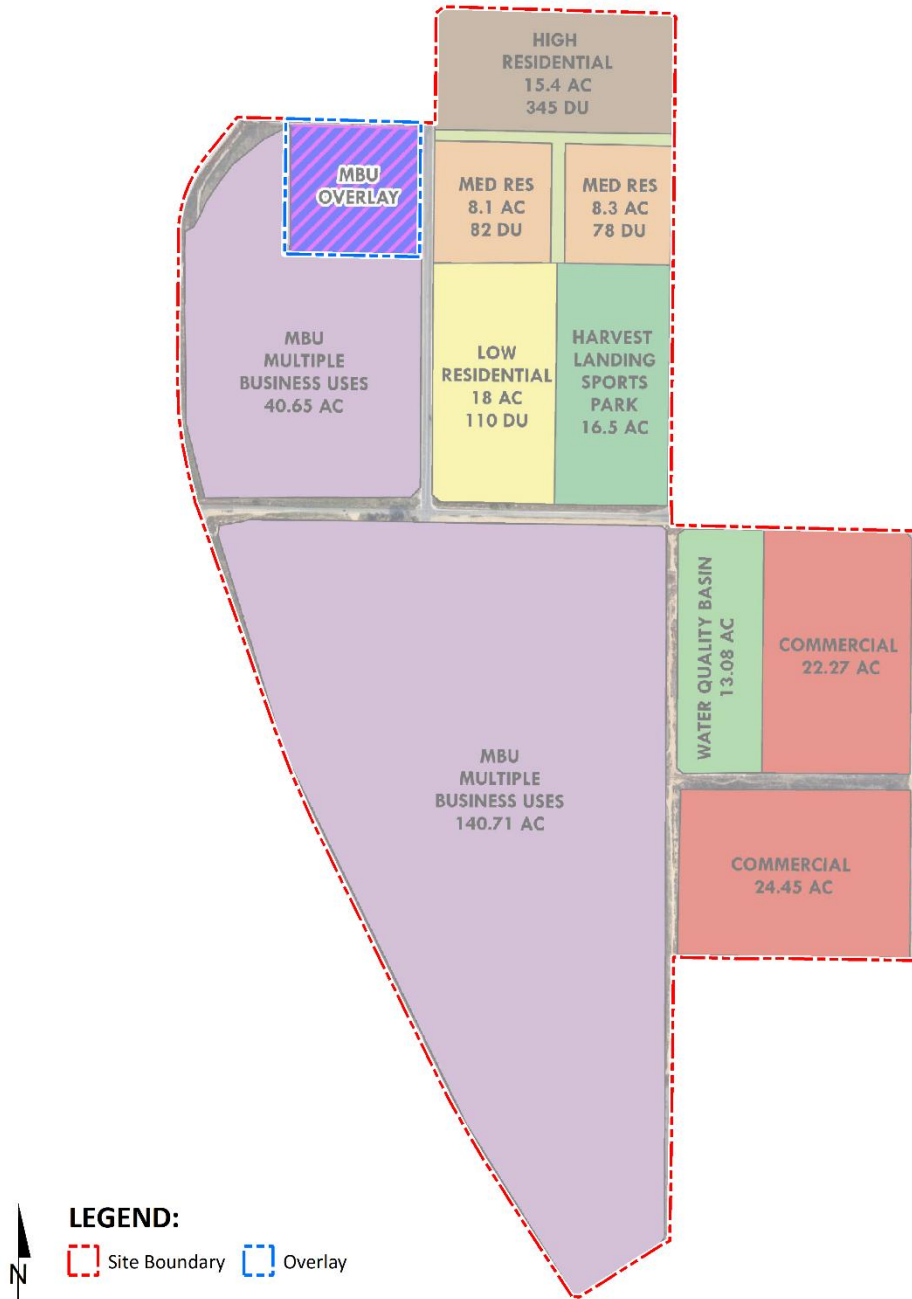
This alternative consists of the development of Phase 1 in a manner consistent with the proposed Project. However, a portion of the Phase 2 area would not be subject to the Specific Plan Amendment so Phase 2 buildout would include development of Phase 2 west of Indian Avenue with MBU uses and development of the area east of Indian Avenue with approximately 615 dwelling units pursuant to the existing Harvest Landing Specific Plan designations. Therefore, this alternative would include development of approximately 3,403,877 square feet of MBU uses, 428,507 square feet of commercial retail uses, 615 dwelling units, and a 16.5-acre sports park.

As with the Project, the entire 358.28-acre developable portion of the site would be developed. Areas planned for physical impact on and off-site would be identical to those required for development of the proposed Project. This alternative would still include a Specific Plan Amendment, General Plan Amendment, and Zone Change as shown on Exhibit 2.

EXHIBIT 1: EIR PROJECT SITE PLAN



EXHIBIT 2: PHASE 2 RESIDENTIAL ALTERNATIVE SITE PLAN



OFF-SITE TRAFFIC NOISE ANALYSIS

The land use change from MBU to residential for the Phase 2 Residential Alternative shows a net reduction in trip generation of 3,486 trips per day including 1,327 fewer trucks trips in comparison to the Project evaluated in the 2025 Noise Study. Using the same roadway segments identified in the 2025 Noise Study, the off-site traffic noise levels were calculated for the Phase 2 Residential Alternative based on the Average Daily Traffic Volumes presented in the *Harvest Landing Retail Center & Business Park Project Traffic Impact Analysis Report (TIA)* prepared by EPD Solutions, Inc. in combination with the Phase 2 Residential Alternative trip generation as shown on Table 1.

Table 2 presents a summary of the Phase 2 Residential Alternative off-site traffic noise levels for each traffic scenarios outlined in the TIA. The off-site traffic noise calculations are included in Attachment A. Table 3 presents a summary of the Project related and the Phase 2 Residential Alternative off-site traffic noise increases. As shown in Table 3, the unmitigated off-site traffic noise levels increase evaluated for the (2025 Noise Study) will range from 0.1 to 10.6 dBA CNEL. The off-site traffic noise levels for the Phase 2 Residential Alternative will range from 0.1 to 8.3 dBA CNEL.

Table 3 shows that the off-site traffic noise level increases are reduced with the Phase 2 Residential Alternative due to the reduction in the number of trips. In addition, Table 4 shows that the incremental off-site traffic noise increase thresholds will be limited to the same roadway segments identified in the 2025 Noise Study.

TABLE 1: PHASE 2 RESIDENTIAL ALTERNATIVE AVERAGE DAILY TRAFFIC VOLUMES

ID	Roadway	Segment	Average Daily Traffic Volumes ¹							
			Existing Without Project	Existing With Project	Opening Year (2026) Without Project	Opening Year (2026) With Project	Opening Year (2030) Without Project	Opening Year (2030) With Project	General Plan (2045) Without Project	General Plan (2045) With Project
1	Indian Ave	between Placentia Ave and Orange Ave	4,467	6,296	4,950	5,432	5,486	7,315	8,976	10,805
2	Orange Ave	between Indian Ave and Perris Blvd	7,771	10,097	8,667	10,095	9,600	11,925	9,600	11,925
3	Perris Blvd	between Orange Ave and Citrus Ave	25,533	30,376	37,820	41,541	40,884	45,727	40,884	45,727
4	Barrett Ave	between Placentia Ave and Orange Ave	1,167	7,726	1,345	6,333	1,485	8,044	1,509	8,068
5	Perris Blvd	between Placentia Ave and Orange Ave	23,745	27,064	35,971	39,290	38,820	42,139	38,820	42,139
6	Perris Blvd	between Rider St and Placentia Ave	23,951	28,366	38,203	41,159	41,077	45,493	41,077	45,493
7	Nuevo Rd	between Perris Blvd and I-215 NB Ramps	33,486	41,825	41,646	49,873	45,664	54,004	45,664	54,004
8	I-215 Frontage Rd	between Placentia Ave and Orange Ave	5,666	13,576	6,006	8,398	6,686	14,596	9,236	17,146
9	I-215 Frontage Rd	between Orange Ave and Nuevo Rd	2,855	10,166	3,026	5,419	3,369	10,680	4,654	11,965
10	Orange Ave	between I-215 Frontage Rd and Indian Ave	2,998	4,817	3,178	3,499	3,538	5,356	4,887	6,705
11	Nuevo Rd	between I-215 NB Ramps and I-215 SB Ramps	22,066	23,782	29,684	30,951	32,332	34,048	32,332	34,048
12	Perris Blvd	between Citrus Ave and Nuevo Rd	26,744	40,438	39,262	51,833	42,471	56,165	46,021	59,715
13	Placentia Ave	between I-215 NB Ramps and I-215 SB Ramps	18,457	27,363	30,384	36,080	32,599	41,505	32,599	41,505
14	Placentia Ave	between I-215 NB Ramps and Indian Ave	25,715	34,256	43,472	48,982	46,558	55,098	46,558	55,098
15	Placentia Ave	between Indian Ave and Perris Blvd	11,227	19,517	25,000	30,933	26,347	34,637	26,347	34,637

¹ Harvest Landing Retail Center & Business Park Project Traffic Impact Analysis Report, EPD Solutions, Inc.

TABLE 2: PHASE 2 RESIDENTIAL OFF-SITE TRAFFIC NOISE LEVELS SUMMARY

ID	Roadway	Segment	CNEL at Receiving Land Use (dBA) ¹							
			Existing Without Project	Existing With Project	Opening Year (2026) Without Project	Opening Year (2026) With Project	Opening Year (2030) Without Project	Opening Year (2030) With Project	General Plan (2045) Without Project	General Plan (2045) With Project
1	Indian Ave	between Placentia Ave and Orange Ave	65.5	66.6	65.9	66.2	66.4	67.3	68.5	69.1
2	Orange Ave	between Indian Ave and Perris Blvd	67.4	68.3	67.8	68.4	68.3	69.0	68.3	69.0
3	Perris Blvd	between Orange Ave and Citrus Ave	72.5	73.1	74.2	74.6	74.6	75.0	74.6	75.0
4	Barrett Ave	between Placentia Ave and Orange Ave	59.7	66.8	60.3	66.1	60.7	67.1	60.8	67.1
5	Perris Blvd	between Placentia Ave and Orange Ave	72.2	72.7	74.0	74.3	74.4	74.6	74.4	74.6
6	Perris Blvd	between Rider St and Placentia Ave	72.3	72.8	74.3	74.5	74.6	74.9	74.6	74.9
7	Nuevo Rd	between Perris Blvd and I-215 NB Ramps	73.6	74.4	74.5	75.2	74.9	75.5	74.9	75.5
8	I-215 Frontage Rd	between Placentia Ave and Orange Ave	66.5	74.4	66.8	72.4	67.2	74.6	68.6	74.9
9	I-215 Frontage Rd	between Orange Ave and Nuevo Rd	63.5	71.1	63.8	71.8	64.3	71.2	65.7	71.5
10	Orange Ave	between I-215 Frontage Rd and Indian Ave	63.7	72.0	64.0	64.3	64.5	72.1	65.9	72.4
11	Nuevo Rd	between I-215 NB Ramps and I-215 SB Ramps	71.9	72.2	73.2	73.3	73.6	73.7	73.6	73.7
12	Perris Blvd	between Citrus Ave and Nuevo Rd	72.6	74.1	74.3	75.3	74.6	75.6	75.0	75.9
13	Placentia Ave	between I-215 NB Ramps and I-215 SB Ramps	71.1	75.1	73.3	74.7	73.6	76.3	73.6	76.3
14	Placentia Ave	between I-215 NB Ramps and Indian Ave	72.6	73.6	74.8	75.3	75.1	75.7	75.1	75.7
15	Placentia Ave	between Indian Ave and Perris Blvd	68.8	70.8	72.3	73.1	72.5	73.5	72.5	73.5

¹The CNEL is calculated at the boundary of the right-of-way of each roadway and the property line of the receiving land use.

TABLE 3: PHASE 2 RESIDENTIAL ALTERNATIVE OFF-SITE TRAFFIC NOISE LEVEL INCREASE SUMMARY

ID	Road	Segment	Incremental Noise Level Increase (dBA CNEL)							
			2025 Noise Study				Ph2 Residential Alt.			
			E	2026	2030	2045	E	2026	2030	2045
1	Indian Ave	between Placentia Ave and Orange Ave	1.1	0.3	0.9	0.6	1.1	0.3	0.9	0.6
2	Orange Ave	between Indian Ave and Perris Blvd	0.9	0.6	0.7	0.7	0.9	0.6	0.7	0.7
3	Perris Blvd	between Orange Ave and Citrus Ave	0.6	0.4	0.4	0.4	0.6	0.4	0.4	0.4
4	Barrett Ave	between Placentia Ave and Orange Ave	7.1	5.8	6.4	6.3	7.1	5.8	6.4	6.3
5	Perris Blvd	between Placentia Ave and Orange Ave	0.5	0.3	0.2	0.2	0.5	0.3	0.2	0.2
6	Perris Blvd	between Rider St and Placentia Ave	0.5	0.2	0.3	0.3	0.5	0.2	0.3	0.3
7	Nuevo Rd	between Perris Blvd and I-215 NB Ramps	0.8	0.7	0.6	0.6	0.8	0.7	0.6	0.6
8	I-215 Frontage Rd	between Placentia Ave and Orange Ave	10.0	5.6	9.4	8.2	7.9	5.6	7.4	6.3
9	I-215 Frontage Rd	between Orange Ave and Nuevo Rd	9.2	8.0	8.5	7.3	7.6	8.0	6.9	5.8
10	Orange Ave	between I-215 Frontage Rd and Indian Ave	10.6	0.3	9.9	8.7	8.3	0.3	7.6	6.5
11	Nuevo Rd	between I-215 NB Ramps and I-215 SB Ramps	0.3	0.1	0.1	0.1	0.3	0.1	0.1	0.1
12	Perris Blvd	between Citrus Ave and Nuevo Rd	1.5	1.0	1.0	0.9	1.5	1.0	1.0	0.9
13	Placentia Ave	between I-215 NB Ramps and I-215 SB Ramps	5.5	1.4	3.8	3.8	4.0	1.4	2.7	2.7
14	Placentia Ave	between I-215 NB Ramps and Indian Ave	1.0	0.5	0.6	0.6	1.0	0.5	0.6	0.6
15	Placentia Ave	between Indian Ave and Perris Blvd	2.0	0.8	1.0	1.0	2.0	0.8	1.0	1.0

TABLE 4: PHASE 2 RESIDENTIAL ALTERNATIVE SIGNIFICANT OFF-SITE TRAFFIC NOISE IMPACT SUMMARY

ID	Road	Segment	Incremental Noise Level Increase Threshold Exceeded? ¹							
			2025 Noise Study				Ph2 Residential Alt.			
			E	2026	2030	2045	E	2026	2030	2045
1	Indian Ave	between Placentia Ave and Orange Ave	No	No	No	No	No	No	No	No
2	Orange Ave	between Indian Ave and Perris Blvd	No	No	No	No	No	No	No	No
3	Perris Blvd	between Orange Ave and Citrus Ave	No	No	No	No	No	No	No	No
4	Barrett Ave	between Placentia Ave and Orange Ave	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	Perris Blvd	between Placentia Ave and Orange Ave	No	No	No	No	No	No	No	No
6	Perris Blvd	between Rider St and Placentia Ave	No	No	No	No	No	No	No	No
7	Nuevo Rd	between Perris Blvd and I-215 NB Ramps	No	No	No	No	No	No	No	No
8	I-215 Frontage Rd	between Placentia Ave and Orange Ave	No	No	No	No	No	No	No	No
9	I-215 Frontage Rd	between Orange Ave and Nuevo Rd	No	No	No	No	No	No	No	No
10	Orange Ave	between I-215 Frontage Rd and Indian Ave	No	No	No	No	No	No	No	No
11	Nuevo Rd	between I-215 NB Ramps and I-215 SB Ramps	No	No	No	No	No	No	No	No
12	Perris Blvd	between Citrus Ave and Nuevo Rd	No	No	No	No	No	No	No	No
13	Placentia Ave	between I-215 NB Ramps and I-215 SB Ramps	No	No	No	No	No	No	No	No
14	Placentia Ave	between I-215 NB Ramps and Indian Ave	No	No	No	No	No	No	No	No
15	Placentia Ave	between Indian Ave and Perris Blvd	Yes	No	No	No	Yes	No	No	No

¹ Does the Project create an incremental noise level increase exceeding the significance criteria?

OPERATIONAL NOISE ANALYSIS

As discussed in the 2025 Noise Study, the Project-related operational noise sources are expected to include: loading dock activity, roof-top air conditioning, drive-through speakerphone, trash enclosure activity, parking lot vehicle movements, gas station activity and truck movements. The Reference Noise Level Measurements shown on Table 9-1 of the 2025 Noise Study presented below on Table 3 including loading dock activities and truck movements represent the noisiest Project related operational activities.

TABLE 5: PROJECT REFERENCE NOISE LEVEL MEASUREMENTS

Noise Source ¹	Noise Source Height (Feet)	Min./Hour ²		Reference Noise Level (dBA L _{eq})		Reference Noise Level (dBA L _{max})	
		Day	Night	@ Ref. Dist.	@ 50 Feet	@ Ref. Dist.	@ 50 Feet
Loading Dock Activity	8'	60	60	67.2	62.8	75.6	71.2
Roof-Top Air Conditioning Units	5'	39	28	77.2	57.2	77.7	57.7
Drive-Through Speakerphone	3'	60	30	62.0	51.5	65.3	54.8
Trash Enclosure Activity	5'	60	30	72.7	56.8	87.0	71.1
Parking Lot Vehicle Movements	5'	60	60	66.6	56.1	70.2	59.7
Gas Station Activity	5'	60	60	68.2	48.2	74.4	54.4
Truck Movements	8'	60	60	64.0	58.0	79.1	73.1

¹ As measured by Urban Crossroads, Inc.

² Anticipated duration (minutes within the hour) of noise activity during typical hourly conditions expected at the Project site.

"Daytime" = 7:01 a.m. to 10:00 p.m.; "Nighttime" = 10:01 p.m. to 7:00 a.m.

For the Phase 2 Residential Alternative, the area east of Indian Avenue would be developed with approximately 615 dwelling units and a 16.5-acre sports park. The Phase 2 Residential Alternative is not expected to include any specific type of operational noise (stationary source) levels beyond the typical noise sources associated with the proposed residential land use. This includes residents moving around the site, parking activities, air conditioning units and background outdoor activities. Residential land use is generally considered noise-sensitive receiving land use. In addition, the potential noise source activities from the 16.5-acre sports park are not expected to take place during the noise sensitive nighttime hours.

Since Phase 2 Residential Alternative represents a reduction in the amount of industrial/warehouse land uses as compared to the 2025 Noise Study, it is expected that Phase 2 Residential Alternative will account for fewer loading docks and truck movement events. Therefore, it is anticipated that the Phase 2 Residential Alternative operational noise activities will be reduced as compared to the 2025 Noise Study. If you have any questions or comments, I can be reached at blawson@urbanxroads.com.

ATTACHMENT A

OFF-SITE TRAFFIC NOISE LEVEL CALCULATIONS

DATE: January 30, 2025
TO: Meaghan Truman, EPD Solutions, Inc.
FROM: Haseeb Qureshi, Urban Crossroads, Inc.
Ali Dadabhoy
Shannon Wong
JOB NO: 15605-03 EIR Alt AQ & GHG Assessment Redline

HARVEST LANDING PHASE 2 RESIDENTIAL ALTERNATIVE AIR QUALITY & GREENHOUSE GAS ASSESSMENT

Meaghan Truman,

Urban Crossroads, Inc. is pleased to provide the following Harvest Landing Phase 2 Residential Alternative Air Quality & Greenhouse Gas Assessment. The Project site includes approximately 358.28 acres and is generally bounded by I-215 to the west, Perris Boulevard to the east, Nuevo Road to the south, and Placentia Avenue to the north within the City of Perris. On January 17, 2025, Urban Crossroads, Inc. prepared a detailed air quality impact analysis and greenhouse gas analysis (2025 Air Quality and Greenhouse Gas Studies) reports for the proposed Harvest Landing Retail Center & Business Park Project. The proposed Project evaluated in the 2025 Air Quality and Greenhouse Gas Studies included a total buildout of approximately 5,735,535 square feet of Multiple Business uses and 428,507 square feet of Commercial uses as shown on Exhibit 1. The purpose of this evaluation is to assess the potential Project related air quality and greenhouse gas impacts associated with Phase 2 Residential Alternative.

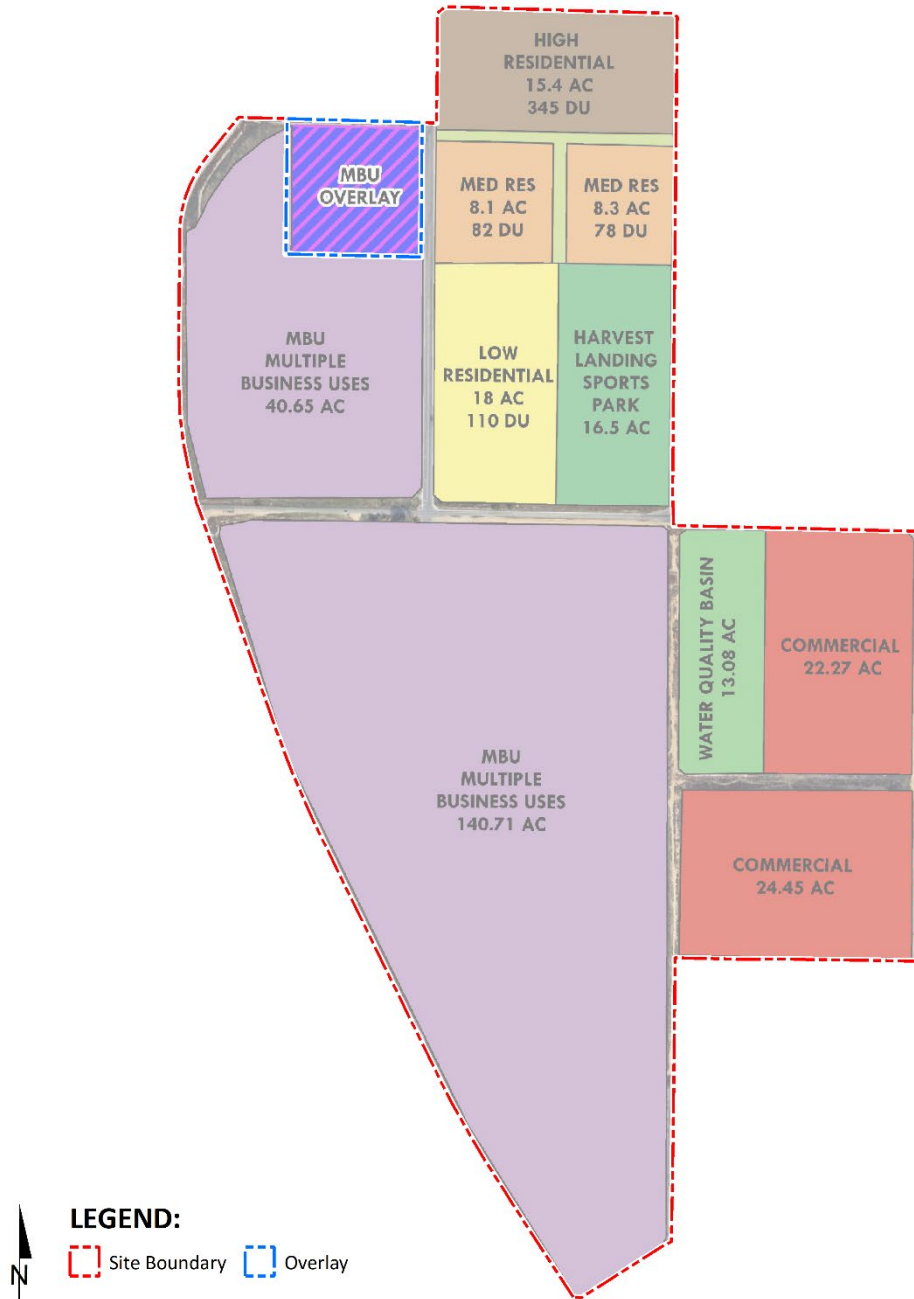
PROJECT OVERVIEW

This alternative consists of development of Phase 1 in a manner consistent with the proposed Project. However, a portion of the Phase 2 area would not be subject to the Specific Plan Amendment so Phase 2 buildout would include development of Phase 2 west of Indian Avenue with MBU uses and development of the area east of Indian Avenue with approximately 615 dwelling units. Areas east of Indian Avenue would be developed pursuant to the existing Harvest Landing Specific Plan designations. Therefore, this alternative would include development of approximately 3,403,877 square feet of MBU uses, 428,507 square feet of commercial retail uses, 615 dwelling units, and a 16.5-acre sports park. As with the Project, the entire 358.28-acre developable portion of the site would be developed. This alternative would still include a Specific Plan Amendment, General Plan Amendment, and Zone Change

EXHIBIT 1: EIR Project Site Plan



EXHIBIT 2: PHASE 2 RESIDENTIAL ALTERNATIVE SITE PLAN



AIR QUALITY ANALYSIS

CONSTRUCTION EMISSIONS

The construction of the Phase 2 Residential Alternative is anticipated to result in impacts similar to those disclosed in the 2025 Air Quality Study.

REGIONAL OPERATIONAL EMISSIONS

The land use change from MBU to residential for the Phase 2 Residential Alternative shows a net reduction in trip generation of 3,486 trips per day including 1,327 fewer trucks trips in comparison to the Project evaluated in the 2025 Air Quality Study.

As mentioned previously, the proposed Project Alternative analysis includes two scenarios (A and B) that have been evaluated to determine a range of impacts that could occur based on different truck trip lengths. Scenario A is based on recommendations from SCAQMD's WAIRE Program and Scenario B is based on Streetlight™ data collected for the project vicinity. As this difference in trip lengths would only affect the Mobile Source Category, the Operational Emissions Summary below includes separate sections for both Scenario A and Scenario B trip lengths to clearly summarize each Scenario.

SCENARIO A

The estimated operation-source emissions from Scenario A are summarized by Table 1 for Phase 1 (2026), Table 2 for Phase 2 (2030), and Table 2 for Specific Plan Buildout (Phase 1 + Phase 2, 2030). Detailed operation model outputs are presented in Attachments A through C.

As shown on Table 1, Phase 1 would exceed the numerical thresholds of significance for emissions of VOC, NO_x, CO, and PM₁₀ during both the summer and winter seasons. In Table 2, Phase 2 would exceed the numerical thresholds of significance for emissions of VOC and NO_x during both the summer and winter seasons. In Table 3, Specific Plan Buildout would exceed the numerical thresholds of significance for emissions of VOC, NO_x, CO, PM₁₀ and PM_{2.5} during both the summer and winter seasons.

TABLE 1: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS – PHASE 1 SCENARIO A

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
Mobile Source	147.68	137.11	885.14	2.33	182.82	48.05
Area Source	65.83	0.79	94.21	0.01	0.17	0.13
Energy Source	0.14	2.63	2.21	0.02	0.20	0.20
Stationary Source	5.91	16.51	15.06	0.03	0.87	0.87
Gasoline Dispensing	9.35	0.00	0.00	0.00	0.00	0.00
On-Site Cargo Equipment	0.70	2.25	98.67	0.00	0.18	0.16

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Total Maximum Daily Emissions	229.61	159.30	1095.30	2.38	184.23	49.41
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	NO
Winter						
Mobile Source	137.47	145.66	778.21	2.21	182.82	48.05
Area Source	50.36	0.00	0.00	0.00	0.00	0.00
Energy Source	0.14	2.63	2.21	0.02	0.20	0.20
Stationary Source	5.91	16.51	15.06	0.03	0.87	0.87
Gasoline Dispensing	9.35	0.00	0.00	0.00	0.00	0.00
On-Site Cargo Equipment	0.70	2.25	98.67	0.00	0.18	0.16
Total Maximum Daily Emissions	203.94	167.05	894.15	2.26	184.06	49.28
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	NO

TABLE 2: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS – PHASE 2 SCENARIO A

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
Mobile Source	28.63	81.05	220.73	1.14	73.92	20.08
Area Source	70.17	11.14	112.26	0.07	0.97	0.93
Energy Source	0.16	2.80	1.19	0.02	0.23	0.23
Stationary Source	6.89	19.26	17.57	0.03	1.01	1.01
On-Site Cargo Equipment	0.67	2.17	93.23	0.00	0.18	0.16
Total Maximum Daily Emissions	106.52	116.43	444.99	1.26	76.30	22.42
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	NO	NO	NO	NO
Winter						
Mobile Source	27.16	85.21	192.37	1.11	73.92	20.08
Area Source	55.17	10.20	4.34	0.07	0.82	0.82
Energy Source	0.16	2.80	1.19	0.02	0.23	0.23
Stationary Source	6.89	19.26	17.57	0.03	1.01	1.01
On-Site Cargo Equipment	0.67	2.17	93.23	0.00	0.18	0.16

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Total Maximum Daily Emissions	90.05	119.65	308.71	1.23	76.16	22.31
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	NO	NO	NO	NO

TABLE 3: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS – SPECIFIC PLAN BUILDOUT SCENARIO A

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
Mobile Source	149.41	191.57	959.62	3.29	256.21	67.75
Area Source	136.02	11.93	206.48	0.08	1.14	1.06
Energy Source	0.31	5.43	3.40	0.03	0.43	0.43
Stationary Source	12.80	35.78	32.64	0.06	1.88	1.88
Gasoline Dispensing	9.35	0.00	0.00	0.00	0.00	0.00
On-Site Cargo Equipment	1.45	4.71	202.00	0.00	0.38	0.35
Total Maximum Daily Emissions	309.33	249.41	1404.14	3.46	260.04	71.48
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	YES
Winter						
Mobile Source	140.83	202.57	842.06	3.15	256.22	67.76
Area Source	105.53	10.20	4.34	0.07	0.82	0.82
Energy Source	0.31	5.43	3.40	0.03	0.43	0.43
Stationary Source	12.80	35.78	32.64	0.06	1.88	1.88
Gasoline Dispensing	9.35	0.00	0.00	0.00	0.00	0.00
On-Site Cargo Equipment	1.45	4.71	202.00	0.00	0.38	0.35
Total Maximum Daily Emissions	270.27	258.69	1084.44	3.31	259.73	71.24
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	YES

SCENARIO B

The estimated operation-source emissions from Scenario B are summarized by Table 4 for Phase 1 (2026), Table 5 for Phase 2 (2030), and Table 6 for Specific Plan Buildout (Phase 1 + Phase 2, 2030). Detailed operation model outputs are presented in Attachments D through E.

As shown on Table 4, Phase 1 would exceed the numerical thresholds of significance for emissions of VOC, NO_x, CO, and PM₁₀ during both the summer and winter seasons. In Table 5, Phase 2 would exceed the numerical thresholds of significance for emissions of VOC and NO_x during both the summer and winter seasons. In Table 6, Specific Plan Buildout would exceed the numerical thresholds of significance for emissions of VOC, NO_x, CO, PM₁₀ and PM_{2.5} during both the summer and winter seasons.

TABLE 4: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS – PHASE 1 SCENARIO B

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
Mobile Source	148.36	170.57	893.08	2.68	195.37	51.84
Area Source	65.83	0.79	94.21	0.01	0.17	0.13
Energy Source	0.14	2.63	2.21	0.02	0.20	0.20
Stationary Source	5.91	16.51	15.06	0.03	0.87	0.87
Gasoline Dispensing	9.35	0.00	0.00	0.00	0.00	0.00
On-Site Cargo Equipment	0.70	2.25	98.67	0.00	0.18	0.16
Total Maximum Daily Emissions	230.30	192.76	1103.23	2.73	196.78	53.19
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	NO
Winter						
Mobile Source	138.16	180.55	786.08	2.56	195.37	51.84
Area Source	50.36	0.00	0.00	0.00	0.00	0.00
Energy Source	0.14	2.63	2.21	0.02	0.20	0.20
Stationary Source	5.91	16.51	15.06	0.03	0.87	0.87
Gasoline Dispensing	9.35	0.00	0.00	0.00	0.00	0.00
On-Site Cargo Equipment	0.70	2.25	98.67	0.00	0.18	0.16
Total Maximum Daily Emissions	204.63	201.94	902.02	2.60	196.62	53.07
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	NO

TABLE 5: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS – PHASE 2 SCENARIO B

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
Mobile Source	29.54	129.24	231.58	1.69	95.84	26.64

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source	70.17	11.14	112.26	0.07	0.97	0.93
Energy Source	0.16	2.80	1.19	0.02	0.23	0.23
Stationary Source	6.89	19.26	17.57	0.03	1.01	1.01
On-Site Cargo Equipment	0.67	2.17	93.23	0.00	0.18	0.16
Total Maximum Daily Emissions	107.43	164.61	455.83	1.81	98.23	28.97
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	NO	NO	NO	NO
Winter						
Mobile Source	28.07	135.45	203.13	1.66	95.84	26.64
Area Source	55.17	10.20	4.34	0.07	0.82	0.82
Energy Source	0.16	2.80	1.19	0.02	0.23	0.23
Stationary Source	6.89	19.26	17.57	0.03	1.01	1.01
On-Site Cargo Equipment	0.67	2.17	93.23	0.00	0.18	0.16
Total Maximum Daily Emissions	90.96	169.88	319.47	1.77	98.08	28.86
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	NO	NO	NO	NO

TABLE 6: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS – SPECIFIC PLAN BUILDOUT SCENARIO B

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
Mobile Source	150.84	267.18	976.65	4.15	290.63	78.05
Area Source	136.02	11.93	206.48	0.08	1.14	1.06
Energy Source	0.31	5.43	3.40	0.03	0.43	0.43
Stationary Source	12.80	35.78	32.64	0.06	1.88	1.88
Gasoline Dispensing	9.35	0.00	0.00	0.00	0.00	0.00
On-Site Cargo Equipment	1.45	4.71	202.00	0.00	0.38	0.35
Total Maximum Daily Emissions	310.76	325.03	1421.17	4.32	294.46	81.77
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	YES

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Winter						
Mobile Source	142.25	281.41	858.97	4.01	290.63	78.05
Area Source	105.53	10.20	4.34	0.07	0.82	0.82
Energy Source	0.31	5.43	3.40	0.03	0.43	0.43
Stationary Source	12.80	35.78	32.64	0.06	1.88	1.88
Gasoline Dispensing	9.35	0.00	0.00	0.00	0.00	0.00
On-Site Cargo Equipment	1.45	4.71	202.00	0.00	0.38	0.35
Total Maximum Daily Emissions	271.69	337.52	1101.35	4.17	294.15	81.53
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	YES

GHG ANALYSIS

The land use change from MBU to residential for the Phase 2 Residential Alternative shows a net reduction in trip generation of 3,486 trips per day including 1,327 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 scenarios (A and B) that have been evaluated to determine a range of impacts that could occur based on different truck trip lengths. Scenario A is based on recommendations from SCAQMD's WAIRE Program and Scenario B is based on Streetlight™ data collected for the project vicinity. As this difference in trip lengths would only affect the Mobile Source Category, the Operational Emissions Summary below includes separate sections for both Scenario A and Scenario B trip lengths to clearly summarize each Scenario.

SCENARIO A GHG EMISSIONS

The estimated GHG emissions from Scenario A are summarized in Table 7. The estimated GHG emission includes emissions from Carbon Dioxide (CO₂), Methane (CH₄), Nitrous Oxide (N₂O), and Refrigerants (R). Detailed operation model outputs are presented in Attachments A through C.

Operational emissions generated by the proposed Project at full buildout (i.e., 2030) are used to indicate the total amount of GHG emissions for on-going operational emissions. Emissions will be generated when Phase 1 of the Project becomes operational and will increase as each Phase becomes operational. GHG Emissions associated with Phases 1, Phase 2 and Specific Plan Buildout (Phase 1 + Phase 2) for Scenario A are summarized below.

It should be noted that emission factors decrease as time passes and the analysis year increases due to advancements in technology and increasingly stringent air quality regulations. To reflect these improvements and maintain consistency, the analysis for Phase 1 at Specific Plan Buildout was updated using a 2030 opening year, which is consistent with the anticipated Specific Plan Buildout.

- Phase 1 (2026 OY): 39,694.80 MTCO₂e/yr
- Phase 2 (2030 OY): 24,955.25 MTCO₂e/yr
- Specific Plan Buildout (Phase 1 + Phase 2) (2030 OY): 61,128.47 MTCO₂e/yr

TABLE 7: SCENARIO A GHG EMISSIONS

Source	Emission (metric tons per year)				
	CO ₂	CH ₄	N ₂ O	Refrigerants	Total CO ₂ e
Phase 1 (2026)					
Annual construction-related emissions amortized over 30 years	170.97	0.00	0.01	0.15	175.48
Mobile Source	32,009.86	1.57	2.31	47.71	32,784.17
Area Source	43.93	0.00	0.00	0.00	44.09
Energy Source	3,839.67	0.36	0.04	0.00	3,860.45
Water Source	645.99	14.72	0.35	0.00	1,119.46
Waste Source	314.72	31.45	0.00	0.00	1,101.08
Refrigeration	0.00	0.00	0.00	257.04	257.04
Stationary Source	68.54	0.00	0.00	0.00	68.77
On-Site Equipment	0.00	0.00	0.00	0.00	284.25
Total CO ₂ e (All Sources)	39,694.80				
Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	424.28	0.01	0.03	0.28	432.84
Mobile Source	17,102.57	0.49	1.80	17.01	17,669.27
Area Source	191.42	0.00	0.00	0.00	191.73
Energy Source	4,528.56	0.55	0.06	0.00	4,560.67
Water Source	478.88	13.47	0.32	0.00	912.23
Waste Source	227.89	22.78	0.00	0.00	797.32
Refrigeration	0.00	0.00	0.00	26.71	26.71
Stationary Source	79.97	0.00	0.00	0.00	80.23
On-Site Equipment	0.00	0.00	0.00	0.00	284.25
Total CO ₂ e (All Sources)	24,955.25				
Phase 1 + Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	595.25	0.01	0.04	0.43	608.32
Mobile Source	46,579.53	1.82	3.88	47.16	47,827.58
Area Source	235.35	0.01	0.00	0.00	235.82
Energy Source	7,549.22	0.91	0.10	0.00	7,602.12
Water Source	1,000.79	28.18	0.68	0.00	1,907.61

Source	Emission (metric tons per year)				
	CO ₂	CH ₄	N ₂ O	Refrigerants	Total CO ₂ e
Waste Source	542.61	54.23	0.00	0.00	1,898.40
Refrigeration	0.00	0.00	0.00	283.74	283.74
Stationary Source	148.51	0.01	0.00	0.00	149.01
On-Site Equipment	0.00	0.00	0.00	0.00	615.88
Total CO₂e (All Sources)	61,128.47				

SCENARIO B GHG EMISSIONS

The estimated GHG emissions from Scenario B are summarized in Table 8. The estimated GHG emission includes emissions from Carbon Dioxide (CO₂), Methane (CH₄), Nitrous Oxide (N₂O), and Refrigerants (R). Detailed operation model outputs are presented in Attachments D through F.

Operational emissions generated by the proposed Project at full buildout (i.e., 2030) are used to indicate the total amount of GHG emissions for on-going operational emissions. Emissions will be generated when Phase 1 of the Project becomes operational and will increase as each Phase becomes operational. GHG Emissions associated with Phases 1, Phase 2 and Specific Plan Buildout (Phase 1 + Phase 2) for Scenario B are summarized below.

It should be noted that emission factors decrease as time passes and the analysis year increases due to advancements in technology and increasingly stringent air quality regulations. To reflect these improvements and maintain consistency, the analysis for Phase 1 at Specific Plan Buildout was updated using a 2030 opening year, which is consistent with the anticipated Specific Plan Buildout.

- Phase 1 (2026 OY): 45,390.14 MTCO₂e/yr
- Phase 2 (2030 OY): 33,827.18 MTCO₂e/yr
- Specific Plan Buildout (Phase 1 + Phase 2) (2030 OY): 75,170.40 MTCO₂e/yr

TABLE 8: SCENARIO B GHG EMISSIONS

Source	Emission (metric tons per year)				
	CO ₂	CH ₄	N ₂ O	Refrigerants	Total CO ₂ e
Phase 1 (2026)					
Annual construction-related emissions amortized over 30 years	170.97	0.00	0.01	0.15	175.48
Mobile Source	37,455.74	1.64	3.11	54.78	38,479.52
Area Source	43.93	0.00	0.00	0.00	44.09
Energy Source	3,839.67	0.36	0.04	0.00	3,860.45
Water Source	645.99	14.72	0.35	0.00	1,119.46
Waste Source	314.72	31.45	0.00	0.00	1,101.08
Refrigeration	0.00	0.00	0.00	257.04	257.04
Stationary Source	68.54	0.00	0.00	0.00	68.77

Source	Emission (metric tons per year)				
	CO ₂	CH ₄	N ₂ O	Refrigerants	Total CO ₂ e
On-Site Equipment	0.00	0.00	0.00	0.00	284.25
Total CO₂e (All Sources)	45,390.14				
Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	424.28	0.01	0.03	0.28	432.84
Mobile Source	25,587.82	0.60	3.06	25.45	26,541.20
Area Source	191.42	0.00	0.00	0.00	191.73
Energy Source	4,528.56	0.55	0.06	0.00	4,560.67
Water Source	478.88	13.47	0.32	0.00	912.23
Waste Source	227.89	22.78	0.00	0.00	797.32
Refrigeration	0.00	0.00	0.00	26.71	26.71
Stationary Source	79.97	0.00	0.00	0.00	80.23
On-Site Equipment	0.00	0.00	0.00	0.00	284.25
Total CO₂e (All Sources)	33,827.18				
Phase 1 + Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	595.25	0.01	0.04	0.43	608.32
Mobile Source	60,009.51	2.00	5.87	60.53	61,869.50
Area Source	235.35	0.01	0.00	0.00	235.82
Energy Source	7,549.22	0.91	0.10	0.00	7,602.12
Water Source	1,000.79	28.18	0.68	0.00	1,907.61
Waste Source	542.61	54.23	0.00	0.00	1,898.40
Refrigeration	0.00	0.00	0.00	283.74	283.74
Stationary Source	148.51	0.01	0.00	0.00	149.01
On-Site Equipment	0.00	0.00	0.00	0.00	615.88
Total CO₂e (All Sources)	75,170.40				

CONCLUSION

Since the Phase 2 Residential Alternative involves a reduction in industrial/warehouse land uses compared to the 2025 Air Quality and Greenhouse Gas Studies, it is expected to result in fewer loading docks and truck movement events. As a result, operational air quality and greenhouse gas emissions from the Phase 2 Residential Alternative are anticipated to be lower than those projected in the 2025 Air Quality and Greenhouse Gas Studies.

ATTACHMENT A
CALEEMOD PHASE 1 OPERATIONAL EMISSIONS MODEL OUTPUTS
– SCENARIO A

15605-Harvest Landing Operations (Phase 1) SCAQMD TL Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15605-Harvest Landing Operations (Phase 1) SCAQMD TL
Operational Year	2026
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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	1,207	1000sqft	27.7	1,207,000	523,530	—	—	TUMF High Cube (Building 2, 6, and 7)

Unrefrigerated Warehouse-No Rail	322	1000sqft	7.39	322,079	545,221	—	—	Parcel Hub (Building 1)
Industrial Park	199	1000sqft	4.56	198,500	170,328	—	—	General Light Industrial (Building 3, 4, and 5)
Medical Office Building	5.50	1000sqft	0.13	5,500	4,359	—	—	Medical Office Building
Supermarket	167	1000sqft	3.83	167,050	132,388	—	—	Large Format Retail Anchor
Regional Shopping Center	190	1000sqft	4.36	189,845	150,454	—	—	Shopping Center
Supermarket	23.3	1000sqft	0.53	23,256	18,431	—	—	Supermarket
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.21	8,934	7,080	—	—	Fast Casual Restaurant
High Turnover (Sit Down Restaurant)	21.1	1000sqft	0.48	21,122	16,739	—	—	High-Turnover (Sit -Down) Restaurant
Fast Food Restaurant with Drive Thru	11.0	1000sqft	0.25	11,000	8,718	—	—	Fast Food Restaurant w DT
Fast Food Restaurant with Drive Thru	1.80	1000sqft	0.04	1,800	1,427	—	—	Coffee/Donut Shop w DT
Gasoline/Service Station	12.0	Pump	0.04	10,228	8,106	—	—	Gasoline/Service Station (12 VFP)
Parking Lot	3,286	Space	25.8	0.00	0.00	—	—	—
Other Asphalt Surfaces	160	Acre	160	0.00	0.00	—	—	—
User Defined Industrial	1,728	User Defined Unit	0.00	0.00	0.00	—	—	PC Trips

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances

Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

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.	231	220	157	997	2.38	3.38	181	184	3.22	46.0	49.2	2,765	269,970	272,735	292	18.3	2,349	287,838
Mit.	215	204	156	902	2.38	3.21	181	184	3.09	46.0	49.1	1,487	266,598	268,085	163	17.7	2,349	279,787
% Reduced	7%	7%	1%	9%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	3%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	205	194	165	795	2.26	3.21	181	184	3.09	46.0	49.1	2,765	257,625	260,390	293	18.6	1,573	274,830
Mit.	205	194	165	795	2.26	3.21	181	184	3.09	46.0	49.1	1,487	254,584	256,070	164	18.0	1,573	267,111
% Reduced	—	—	—	—	—	—	—	—	—	—	—	46%	1%	2%	44%	3%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	185	175	131	736	1.90	2.25	150	152	2.12	38.2	40.3	2,765	220,250	223,015	291	16.3	1,841	236,982
Mit.	173	165	130	671	1.89	2.14	150	152	2.04	38.2	40.2	1,487	216,983	218,469	162	15.7	1,841	229,036
% Reduced	6%	6%	< 0.5%	9%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	4%	—	3%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	33.7	32.0	23.8	134	0.35	0.41	27.3	27.7	0.39	6.96	7.35	458	36,465	36,923	48.1	2.70	305	39,235
Mit.	31.6	30.0	23.7	123	0.35	0.39	27.3	27.7	0.37	6.96	7.33	246	35,924	36,170	26.8	2.60	305	37,920
% Reduced	6%	6%	< 0.5%	9%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	4%	—	3%

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	157	148	137	885	2.33	2.14	181	183	2.02	46.0	48.0	—	240,331	240,331	10.7	15.9	796	246,134
Area	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	231	220	157	997	2.38	3.38	181	184	3.22	46.0	49.2	2,765	269,970	272,735	292	18.3	2,349	287,838
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	147	137	146	778	2.21	2.14	181	183	2.02	46.0	48.1	—	228,373	228,373	11.3	16.2	20.7	233,516
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553

Stationa	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	205	194	165	795	2.26	3.21	181	184	3.09	46.0	49.1	2,765	257,625	260,390	293	18.6	1,573	274,830
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	113	125	667	1.87	1.82	150	152	1.72	38.2	39.9	—	193,341	193,341	9.47	13.9	288	198,018
Area	61.8	61.0	0.54	64.5	< 0.005	0.11	—	0.11	0.09	—	0.09	—	265	265	0.01	< 0.005	—	266
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationa ry	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415
Total	185	175	131	736	1.90	2.25	150	152	2.12	38.2	40.3	2,765	220,250	223,015	291	16.3	1,841	236,982
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.2	20.7	22.9	122	0.34	0.33	27.3	27.7	0.31	6.96	7.28	—	32,010	32,010	1.57	2.31	47.7	32,784
Area	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,840	3,840	0.36	0.04	—	3,860
Water	—	—	—	—	—	—	—	—	—	—	—	143	503	646	14.7	0.35	—	1,119
Waste	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationa ry	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	33.7	32.0	23.8	134	0.35	0.41	27.3	27.7	0.39	6.96	7.35	458	36,465	36,923	48.1	2.70	305	39,235

2.6. Operations Emissions by Sector, Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Mobile	157	148	137	885	2.33	2.14	181	183	2.02	46.0	48.0	—	240,331	240,331	10.7	15.9	796	246,134
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	21,032	21,032	1.98	0.21	—	21,145
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	215	204	156	902	2.38	3.21	181	184	3.09	46.0	49.1	1,487	266,598	268,085	163	17.7	2,349	279,787
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	147	137	146	778	2.21	2.14	181	183	2.02	46.0	48.1	—	228,373	228,373	11.3	16.2	20.7	233,516
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	20,975	20,975	1.98	0.21	—	21,087
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	205	194	165	795	2.26	3.21	181	184	3.09	46.0	49.1	1,487	254,584	256,070	164	18.0	1,573	267,111
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	113	125	667	1.87	1.82	150	152	1.72	38.2	39.9	—	193,341	193,341	9.47	13.9	288	198,018
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	21,014	21,014	1.98	0.21	—	21,127
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415

Total	173	165	130	671	1.89	2.14	150	152	2.04	38.2	40.2	1,487	216,983	218,469	162	15.7	1,841	229,036
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.2	20.7	22.9	122	0.34	0.33	27.3	27.7	0.31	6.96	7.28	—	32,010	32,010	1.57	2.31	47.7	32,784
Area	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,479	3,479	0.33	0.04	—	3,498
Water	—	—	—	—	—	—	—	—	—	—	—	104	366	470	10.7	0.26	—	814
Waste	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	31.6	30.0	23.7	123	0.35	0.39	27.3	27.7	0.37	6.96	7.33	246	35,924	36,170	26.8	2.60	305	37,920

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	1.64	0.95	37.4	11.1	0.34	0.62	11.8	12.4	0.59	3.16	3.75	—	36,818	36,818	0.60	5.47	109	38,571
Industrial Park	0.33	0.19	7.53	2.24	0.07	0.12	2.38	2.50	0.12	0.64	0.75	—	7,413	7,413	0.12	1.10	22.0	7,766

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Medical Office Building	0.81	0.76	0.57	5.12	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,231	1,231	0.06	0.06	4.23	1,253
Supermarket	52.9	49.7	34.3	306	0.70	0.53	60.0	60.5	0.50	15.2	15.7	—	71,481	71,481	3.48	3.48	245	72,848
Regional Shopping Center	36.2	33.8	25.3	229	0.54	0.40	46.4	46.8	0.38	11.8	12.1	—	54,980	54,980	2.50	2.59	189	56,003
High Turnover (Sit Down Restaurant)	15.4	14.4	9.78	87.0	0.20	0.15	16.9	17.1	0.14	4.30	4.44	—	20,189	20,189	1.00	0.99	69.0	20,578
Fast Food Restaurant with Drive Thru	28.1	26.9	13.1	109	0.21	0.17	17.1	17.3	0.16	4.35	4.51	—	21,157	21,157	1.53	1.27	69.9	21,643
Gasoline/Service Station	7.85	7.54	3.49	28.8	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,389	5,389	0.42	0.34	17.7	5,518
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	14.3	13.4	5.70	108	0.21	0.10	20.7	20.8	0.09	5.22	5.32	—	21,673	21,673	0.98	0.63	70.3	21,954
Total	157	148	137	885	2.33	2.14	181	183	2.02	46.0	48.0	—	240,331	240,331	10.7	15.9	796	246,134
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Unrefrig erated	1.61	0.92	39.0	11.2	0.34	0.62	11.8	12.4	0.59	3.16	3.75	—	36,828	36,828	0.60	5.47	2.84	38,476
Industria l Park	0.32	0.18	7.86	2.25	0.07	0.12	2.38	2.50	0.12	0.64	0.75	—	7,415	7,415	0.12	1.10	0.57	7,747
Medical Office Building	0.76	0.70	0.61	4.41	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,157	1,157	0.06	0.06	0.11	1,176
Superm arket	49.4	46.2	36.7	267	0.66	0.53	60.0	60.5	0.50	15.2	15.7	—	67,222	67,222	3.69	3.59	6.35	68,390
Regiona l Shoppin g Center	33.9	31.5	27.1	197	0.50	0.40	46.4	46.8	0.38	11.8	12.1	—	51,685	51,685	2.63	2.67	4.90	52,552
High Turnover (Sit Down Restaurant)	14.3	13.4	10.5	76.1	0.19	0.15	16.9	17.1	0.14	4.30	4.44	—	18,988	18,988	1.06	1.02	1.79	19,321
Fast Food Restaurant with Drive Thru	26.1	24.9	13.9	101	0.19	0.17	17.1	17.3	0.16	4.35	4.51	—	19,949	19,949	1.66	1.31	1.81	20,383
Gasolin e/Service Station	7.30	6.97	3.72	27.1	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,085	5,085	0.45	0.35	0.46	5,200
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	13.7	12.8	6.27	92.2	0.20	0.10	20.7	20.8	0.09	5.22	5.32	—	20,044	20,044	1.05	0.67	1.82	20,270

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Total	147	137	146	778	2.21	2.14	181	183	2.02	46.0	48.1	—	228,373	228,373	11.3	16.2	20.7	233,516
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	0.26	0.15	6.37	1.80	0.06	0.10	1.90	2.00	0.10	0.51	0.60	—	5,398	5,398	0.09	0.80	6.93	5,647
Industria l Park	0.06	0.03	1.37	0.39	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,160	1,160	0.02	0.17	1.49	1,213
Medical Office Building	0.11	0.10	0.09	0.64	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	150	150	0.01	0.01	0.23	152
Superm arket	7.51	7.01	5.71	42.2	0.10	0.08	9.14	9.22	0.08	2.32	2.40	—	9,429	9,429	0.51	0.50	14.7	9,607
Regiona l Shoppin g Center	4.71	4.37	3.86	28.6	0.07	0.06	6.46	6.52	0.05	1.64	1.69	—	6,635	6,635	0.34	0.34	10.4	6,756
High Turnover (Sit Down Restaurant)	2.20	2.05	1.64	12.1	0.03	0.02	2.60	2.62	0.02	0.66	0.68	—	2,685	2,685	0.15	0.14	4.18	2,736
Fast Food Restaurant with Drive Thru	3.87	3.68	2.11	15.6	0.03	0.03	2.55	2.58	0.02	0.65	0.67	—	2,732	2,732	0.23	0.18	4.10	2,795
Gasolin e/Service Station	1.25	1.19	0.65	4.80	0.01	0.01	0.75	0.75	0.01	0.19	0.20	—	805	805	0.07	0.05	1.20	824
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	2.22	2.07	1.05	15.7	0.03	0.02	3.37	3.39	0.01	0.85	0.87	—	3,016	3,016	0.16	0.10	4.51	3,054
Total	22.2	20.7	22.9	122	0.34	0.33	27.3	27.7	0.31	6.96	7.28	—	32,010	32,010	1.57	2.31	47.7	32,784

4.1.2. Mitigated

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	1.64	0.95	37.4	11.1	0.34	0.62	11.8	12.4	0.59	3.16	3.75	—	36,818	36,818	0.60	5.47	109	38,571
Industrial Park	0.33	0.19	7.53	2.24	0.07	0.12	2.38	2.50	0.12	0.64	0.75	—	7,413	7,413	0.12	1.10	22.0	7,766
Medical Office Building	0.81	0.76	0.57	5.12	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,231	1,231	0.06	0.06	4.23	1,253
Supermarket	52.9	49.7	34.3	306	0.70	0.53	60.0	60.5	0.50	15.2	15.7	—	71,481	71,481	3.48	3.48	245	72,848
Regional Shopping Center	36.2	33.8	25.3	229	0.54	0.40	46.4	46.8	0.38	11.8	12.1	—	54,980	54,980	2.50	2.59	189	56,003

High Turnover (Sit Down Restaurant)	15.4	14.4	9.78	87.0	0.20	0.15	16.9	17.1	0.14	4.30	4.44	—	20,189	20,189	1.00	0.99	69.0	20,578
Fast Food Restaurant with Drive Thru	28.1	26.9	13.1	109	0.21	0.17	17.1	17.3	0.16	4.35	4.51	—	21,157	21,157	1.53	1.27	69.9	21,643
Gasoline/Service Station	7.85	7.54	3.49	28.8	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,389	5,389	0.42	0.34	17.7	5,518
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	14.3	13.4	5.70	108	0.21	0.10	20.7	20.8	0.09	5.22	5.32	—	21,673	21,673	0.98	0.63	70.3	21,954
Total	157	148	137	885	2.33	2.14	181	183	2.02	46.0	48.0	—	240,331	240,331	10.7	15.9	796	246,134
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.61	0.92	39.0	11.2	0.34	0.62	11.8	12.4	0.59	3.16	3.75	—	36,828	36,828	0.60	5.47	2.84	38,476
Industrial Park	0.32	0.18	7.86	2.25	0.07	0.12	2.38	2.50	0.12	0.64	0.75	—	7,415	7,415	0.12	1.10	0.57	7,747
Medical Office Building	0.76	0.70	0.61	4.41	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,157	1,157	0.06	0.06	0.11	1,176

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Superm	49.4	46.2	36.7	267	0.66	0.53	60.0	60.5	0.50	15.2	15.7	—	67,222	67,222	3.69	3.59	6.35	68,390
Regiona l Shoppin g Center	33.9	31.5	27.1	197	0.50	0.40	46.4	46.8	0.38	11.8	12.1	—	51,685	51,685	2.63	2.67	4.90	52,552
High Turnover (Sit Down Restaurant)	14.3	13.4	10.5	76.1	0.19	0.15	16.9	17.1	0.14	4.30	4.44	—	18,988	18,988	1.06	1.02	1.79	19,321
Fast Food Restaurant with Drive Thru	26.1	24.9	13.9	101	0.19	0.17	17.1	17.3	0.16	4.35	4.51	—	19,949	19,949	1.66	1.31	1.81	20,383
Gasolin e/Service Station	7.30	6.97	3.72	27.1	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,085	5,085	0.45	0.35	0.46	5,200
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	13.7	12.8	6.27	92.2	0.20	0.10	20.7	20.8	0.09	5.22	5.32	—	20,044	20,044	1.05	0.67	1.82	20,270
Total	147	137	146	778	2.21	2.14	181	183	2.02	46.0	48.1	—	228,373	228,373	11.3	16.2	20.7	233,516
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	0.26	0.15	6.37	1.80	0.06	0.10	1.90	2.00	0.10	0.51	0.60	—	5,398	5,398	0.09	0.80	6.93	5,647

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Industrial Park	0.06	0.03	1.37	0.39	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,160	1,160	0.02	0.17	1.49	1,213
Medical Office Building	0.11	0.10	0.09	0.64	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	150	150	0.01	0.01	0.23	152
Supermarket	7.51	7.01	5.71	42.2	0.10	0.08	9.14	9.22	0.08	2.32	2.40	—	9,429	9,429	0.51	0.50	14.7	9,607
Regional Shopping Center	4.71	4.37	3.86	28.6	0.07	0.06	6.46	6.52	0.05	1.64	1.69	—	6,635	6,635	0.34	0.34	10.4	6,756
High Turnover (Sit Down Restaurant)	2.20	2.05	1.64	12.1	0.03	0.02	2.60	2.62	0.02	0.66	0.68	—	2,685	2,685	0.15	0.14	4.18	2,736
Fast Food Restaurant with Drive Thru	3.87	3.68	2.11	15.6	0.03	0.03	2.55	2.58	0.02	0.65	0.67	—	2,732	2,732	0.23	0.18	4.10	2,795
Gasoline/Service Station	1.25	1.19	0.65	4.80	0.01	0.01	0.75	0.75	0.01	0.19	0.20	—	805	805	0.07	0.05	1.20	824
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	2.22	2.07	1.05	15.7	0.03	0.02	3.37	3.39	0.01	0.85	0.87	—	3,016	3,016	0.16	0.10	4.51	3,054
Total	22.2	20.7	22.9	122	0.34	0.33	27.3	27.7	0.31	6.96	7.28	—	32,010	32,010	1.57	2.31	47.7	32,784

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	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,284	3,284	0.31	0.04	—	3,303
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.0	91.0	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	5,790	5,790	0.55	0.07	—	5,824
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,757	1,757	0.17	0.02	—	1,767
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	1,001	1,001	0.10	0.01	—	1,007

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	426	426	0.04	< 0.005	—	429
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
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	—	—	—	—	—	—	—	—	—	—	—	—	20,052	20,052	1.91	0.23	—	20,169
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,284	3,284	0.31	0.04	—	3,303
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.0	91.0	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	5,790	5,790	0.55	0.07	—	5,824

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	—	1,757	1,757	0.17	0.02	—	1,767
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	1,001	1,001	0.10	0.01	—	1,007
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	426	426	0.04	< 0.005	—	429
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
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	—	—	—	—	—	—	—	—	—	—	—	—	20,052	20,052	1.91	0.23	—	20,169
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,105	1,105	0.11	0.01	—	1,112
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	544	544	0.05	0.01	—	547

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	< 0.005	< 0.005	—	15.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	959	959	0.09	0.01	—	964
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	291	291	0.03	< 0.005	—	293
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	70.6	70.6	0.01	< 0.005	—	71.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	156
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	—	—	—	—	—	—	—	—	—	—	—	—	3,320	3,320	0.32	0.04	—	3,339

4.2.2. Electricity Emissions By Land Use - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	6,715	6,715	0.64	0.08	—	6,755
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,288	3,288	0.31	0.04	—	3,307
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	3,827	3,827	0.36	0.04	—	3,849
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,739	1,739	0.17	0.02	—	1,749
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	846	846	0.08	0.01	—	851
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	360	360	0.03	< 0.005	—	362
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.3

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
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	—	—	—	—	—	—	—	—	—	—	—	—	17,892	17,892	1.71	0.21	—	17,997
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,282	3,282	0.31	0.04	—	3,302
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	90.9	90.9	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	3,821	3,821	0.36	0.04	—	3,844
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,734	1,734	0.17	0.02	—	1,744
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	845	845	0.08	0.01	—	850

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	360	360	0.03	< 0.005	—	362
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.5	92.5	0.01	< 0.005	—	93.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
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	—	—	—	—	—	—	—	—	—	—	—	—	17,835	17,835	1.70	0.21	—	17,939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,110	1,110	0.11	0.01	—	1,116
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	544	544	0.05	0.01	—	547
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	< 0.005	< 0.005	—	15.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	633	633	0.06	0.01	—	637
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	288	288	0.03	< 0.005	—	289

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.01	< 0.005	—	141
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	59.6	59.6	0.01	< 0.005	—	60.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	156
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	—	—	—	—	—	—	—	—	—	—	—	—	2,959	2,959	0.28	0.03	—	2,977

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

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Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149

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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-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
Industria l Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Superm arket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regiona l Shoppin g Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7

Gasoline/Service	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027

Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
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

Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig 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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7
Gasoline/Service Station	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521
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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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.8	15.5	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Total	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.09	1.93	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Total	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1

4.3.2. Mitigated

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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	678	2,368	3,046	69.7	1.68	—	5,289

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	310	398	9.05	0.22	—	689
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	4.80	6.13	0.14	< 0.005	—	10.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	164	208	4.62	0.11	—	357
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	103	130	2.77	0.07	—	219
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	60.8	78.3	1.80	0.04	—	136
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	25.9	33.3	0.77	0.02	—	58.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.68	1.98	0.03	< 0.005	—	3.00
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	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	678	2,368	3,046	69.7	1.68	—	5,289
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	310	398	9.05	0.22	—	689
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	4.80	6.13	0.14	< 0.005	—	10.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	164	208	4.62	0.11	—	357
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	103	130	2.77	0.07	—	219
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	60.8	78.3	1.80	0.04	—	136
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	25.9	33.3	0.77	0.02	—	58.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.68	1.98	0.03	< 0.005	—	3.00
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	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	112	392	504	11.5	0.28	—	876
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	14.6	51.3	65.9	1.50	0.04	—	114
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.22	0.80	1.01	0.02	< 0.005	—	1.74
Superm arket	—	—	—	—	—	—	—	—	—	—	—	7.44	27.1	34.5	0.77	0.02	—	59.2
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	4.46	17.0	21.5	0.46	0.01	—	36.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.89	10.1	13.0	0.30	0.01	—	22.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.23	4.29	5.52	0.13	< 0.005	—	9.60

Gasoline/Service	—	—	—	—	—	—	—	—	—	—	—	0.05	0.28	0.33	0.01	< 0.005	—	0.50
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	—	—	—	—	—	—	—	—	—	—	—	143	503	646	14.7	0.35	—	1,119

4.4.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	491	1,722	2,213	50.5	1.22	—	3,838
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	226	289	6.56	0.16	—	500
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	3.51	4.46	0.10	< 0.005	—	7.64
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	123	156	3.45	0.08	—	267

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	75.5	95.0	2.01	0.05	—	160
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	44.1	56.7	1.30	0.03	—	98.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	18.8	24.1	0.55	0.01	—	41.9
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	1.26	1.49	0.02	< 0.005	—	2.22
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	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,722	2,213	50.5	1.22	—	3,838

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	226	289	6.56	0.16	—	500
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	3.51	4.46	0.10	< 0.005	—	7.64
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	123	156	3.45	0.08	—	267
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	75.5	95.0	2.01	0.05	—	160
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	44.1	56.7	1.30	0.03	—	98.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	18.8	24.1	0.55	0.01	—	41.9
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	1.26	1.49	0.02	< 0.005	—	2.22
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	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.3	285	366	8.36	0.20	—	635
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10.5	37.3	47.9	1.09	0.03	—	82.8
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.16	0.58	0.74	0.02	< 0.005	—	1.26
Supermarket	—	—	—	—	—	—	—	—	—	—	—	5.55	20.3	25.8	0.57	0.01	—	44.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.24	12.5	15.7	0.33	0.01	—	26.5
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.09	7.30	9.39	0.22	0.01	—	16.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.89	3.11	4.00	0.09	< 0.005	—	6.95
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.04	0.21	0.25	< 0.005	< 0.005	—	0.37
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	—	—	—	—	—	—	—	—	—	—	—	104	366	470	10.7	0.26	—	814
-------	---	---	---	---	---	---	---	---	---	---	---	-----	-----	-----	------	------	---	-----

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	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	449
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	76.8

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	5.30	0.00	5.30	0.53	0.00	—	18.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	95.8	0.00	95.8	9.57	0.00	—	335
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	17.8	0.00	17.8	1.78	0.00	—	62.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	13.2	0.00	13.2	1.31	0.00	—	46.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.02
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	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101

4.5.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10

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	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Superm arket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10
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	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.3	0.00	51.3	5.13	0.00	—	179
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.78	0.00	8.78	0.88	0.00	—	30.7
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	2.65	0.00	2.65	0.26	0.00	—	9.27
Supermarket	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	8.89	0.00	8.89	0.89	0.00	—	31.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.59	0.00	—	55.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.58	0.00	6.58	0.66	0.00	—	23.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.29	0.00	0.29	0.03	0.00	—	1.01
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	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.6.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emerg ency Generat or	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.8.2. Mitigated

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	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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	267	127	119	82,384	7,986	3,794	3,578	2,466,571
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	5,560	4,462	4,404	1,911,937
Industrial Park	90.9	73.8	72.8	31,351	2,725	2,213	2,183	939,596
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212
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5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	267	127	119	82,384	7,986	3,794	3,578	2,466,571
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	5,560	4,462	4,404	1,911,937
Industrial Park	90.9	73.8	72.8	31,351	2,725	2,213	2,183	939,596
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	3,249,471	1,083,157	485,764

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
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Unrefrigerated Warehouse-No Rail	5,555,038	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	346	0.0330	0.0040	0.00
Industrial Park	3,462,470	346	0.0330	0.0040	0.00
Medical Office Building	95,937	346	0.0330	0.0040	151,727
Supermarket	5,358,917	346	0.0330	0.0040	2,803,892
Regional Shopping Center	1,852,582	346	0.0330	0.0040	1,124,295
Supermarket	746,046	346	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	313,717	346	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	741,697	346	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	386,264	346	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	63,207	346	0.0330	0.0040	205,306
Gasoline/Service Station	97,872	346	0.0330	0.0040	439,296
Parking Lot	984,872	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

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	5,555,038	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	346	0.0330	0.0040	0.00
Industrial Park	3,460,731	346	0.0330	0.0040	0.00
Medical Office Building	95,889	346	0.0330	0.0040	151,727

Supermarket	3,536,697	346	0.0330	0.0040	2,803,892
Regional Shopping Center	1,827,696	346	0.0330	0.0040	1,124,295
Supermarket	492,364	346	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	264,822	346	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	626,100	346	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	326,063	346	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	53,356	346	0.0330	0.0040	205,306
Gasoline/Service Station	97,555	346	0.0330	0.0040	439,296
Parking Lot	984,872	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	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	279,118,750	8,300,940
Unrefrigerated Warehouse-No Rail	74,480,769	8,644,867
Industrial Park	45,903,125	2,700,672
Medical Office Building	690,143	69,115
Supermarket	20,591,955	2,099,106
Regional Shopping Center	14,062,298	2,385,555
Supermarket	2,866,726	292,237
High Turnover (Sit Down Restaurant)	2,711,770	112,258
High Turnover (Sit Down Restaurant)	6,411,239	265,409
Fast Food Restaurant with Drive Thru	3,338,871	138,230

Fast Food Restaurant with Drive Thru	546,361	22,626
Gasoline/Service Station	159,383	128,526
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	202,193,623	6,640,752
Unrefrigerated Warehouse-No Rail	53,953,869	6,915,893
Industrial Park	33,252,224	2,160,537
Medical Office Building	499,940	55,292
Supermarket	15,348,420	1,679,285
Regional Shopping Center	10,203,603	1,908,444
Supermarket	2,136,743	233,789
High Turnover (Sit Down Restaurant)	1,958,983	89,807
High Turnover (Sit Down Restaurant)	4,631,479	212,327
Fast Food Restaurant with Drive Thru	2,412,000	110,584
Fast Food Restaurant with Drive Thru	394,691	18,101
Gasoline/Service Station	115,648	102,821
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
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Unrefrigerated Warehouse-No Rail	1,135	—
Unrefrigerated Warehouse-No Rail	303	—
Industrial Park	246	—
Medical Office Building	59.4	—
Supermarket	942	—
Regional Shopping Center	199	—
Supermarket	131	—
High Turnover (Sit Down Restaurant)	106	—
High Turnover (Sit Down Restaurant)	251	—
Fast Food Restaurant with Drive Thru	127	—
Fast Food Restaurant with Drive Thru	20.7	—
Gasoline/Service Station	6.47	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	454	—
Unrefrigerated Warehouse-No Rail	121	—
Industrial Park	98.5	—
Medical Office Building	29.7	—
Supermarket	471	—
Regional Shopping Center	99.7	—
Supermarket	65.6	—
High Turnover (Sit Down Restaurant)	53.2	—
High Turnover (Sit Down Restaurant)	126	—
Fast Food Restaurant with Drive Thru	63.4	—

Fast Food Restaurant with Drive Thru	10.4	—
Gasoline/Service Station	3.23	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.15.2. Mitigated

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

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	7.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	5.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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 $\frac{3}{4}$ 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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—

Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4

English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted Schedule compressed based on Opening Year of 2026 and Demolition, Site prep, Grading and Building construction dates adjusted based on ratio of default schedule. Paving and architectural coating work days are based on defaults
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per SCAQMD weighted truck axle split (15.3 miles for 2-axle, 14.2 miles for 3-axle and 39.9 miles for 4-axle trucks)
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: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural gas will not be utilized for the industrial Portion of the project. Commercial Portion will utilize Natural Gas
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater

ATTACHMENT B

**CALEEMOD PHASE 2 ALTERNATIVE OPERATIONAL EMISSIONS
MODEL OUTPUTS – SCENARIO A**

15605 - Harvest Landing (Phase 2 Alternative) SCAQMD TL Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15605 - Harvest Landing (Phase 2 Alternative) SCAQMD TL
Operational Year	2030
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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
Industrial Park	1,676	1000sqft	38.5	1,676,298	0.00	—	—	Truck
Single Family Housing	110	Dwelling Unit	35.7	214,500	1,288,414	—	355	Low Residential

Apartments Low Rise	160	Dwelling Unit	10.0	169,600	0.00	—	517	Medium Residential
Apartments Mid Rise	345	Dwelling Unit	9.08	331,200	0.00	—	1,114	High Residential
City Park	16.5	Acre	16.5	0.00	0.00	0.00	—	Sport Park
Other Asphalt Surfaces	5.50	Acre	5.50	0.00	0.00	—	—	—
User Defined Industrial	1,676	User Defined Unit	0.00	0.00	0.00	—	—	PC

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.	112	106	114	352	1.26	3.66	72.5	76.1	3.56	18.7	22.3	2,167	166,095	168,262	226	14.7	431	178,714
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	94.0	89.4	117	215	1.23	3.52	72.5	76.0	3.45	18.7	22.1	2,167	162,426	164,594	226	14.8	168	174,810
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	94.0	90.0	82.5	255	1.02	1.80	64.0	65.8	1.71	16.5	18.2	2,167	134,394	136,561	225	13.2	264	146,400
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.2	16.4	15.1	46.5	0.19	0.33	11.7	12.0	0.31	3.01	3.33	359	22,250	22,609	37.3	2.19	43.7	24,238

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	31.8	28.6	81.1	221	1.14	1.45	72.5	73.9	1.38	18.7	20.1	—	119,772	119,772	3.20	12.3	269	123,786
Area	71.9	70.2	11.1	112	0.07	0.97	—	0.97	0.93	—	0.93	0.00	13,342	13,342	0.26	0.03	—	13,357
Energy	0.33	0.16	2.80	1.19	0.02	0.23	—	0.23	0.23	—	0.23	—	27,353	27,353	3.33	0.37	—	27,547
Water	—	—	—	—	—	—	—	—	—	—	—	791	2,102	2,892	81.3	1.96	—	5,510
Waste	—	—	—	—	—	—	—	—	—	—	—	1,376	0.00	1,376	138	0.00	—	4,816
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161
Stationary	7.57	6.89	19.3	17.6	0.03	1.01	0.00	1.01	1.01	0.00	1.01	0.00	3,526	3,526	0.14	0.03	0.00	3,538
Total	112	106	114	352	1.26	3.66	72.5	76.1	3.56	18.7	22.3	2,167	166,095	168,262	226	14.7	431	178,714
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	30.4	27.2	85.2	192	1.11	1.46	72.5	73.9	1.39	18.7	20.1	—	116,497	116,497	3.31	12.4	6.98	120,276
Area	55.8	55.2	10.2	4.34	0.07	0.82	—	0.82	0.82	—	0.82	0.00	12,949	12,949	0.24	0.02	—	12,963
Energy	0.33	0.16	2.80	1.19	0.02	0.23	—	0.23	0.23	—	0.23	—	27,353	27,353	3.33	0.37	—	27,547
Water	—	—	—	—	—	—	—	—	—	—	—	791	2,102	2,892	81.3	1.96	—	5,510
Waste	—	—	—	—	—	—	—	—	—	—	—	1,376	0.00	1,376	138	0.00	—	4,816
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161
Stationary	7.57	6.89	19.3	17.6	0.03	1.01	0.00	1.01	1.01	0.00	1.01	0.00	3,526	3,526	0.14	0.03	0.00	3,538
Total	94.0	89.4	117	215	1.23	3.52	72.5	76.0	3.45	18.7	22.1	2,167	162,426	164,594	226	14.8	168	174,810
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	26.9	24.0	75.8	177	0.98	1.28	64.0	65.3	1.22	16.5	17.7	—	103,300	103,300	2.95	10.9	103	106,723

Area	65.7	64.9	1.34	74.2	0.01	0.16	—	0.16	0.13	—	0.13	0.00	1,156	1,156	0.03	< 0.005	—	1,158
Energy	0.33	0.16	2.80	1.19	0.02	0.23	—	0.23	0.23	—	0.23	—	27,353	27,353	3.33	0.37	—	27,547
Water	—	—	—	—	—	—	—	—	—	—	—	791	2,102	2,892	81.3	1.96	—	5,510
Waste	—	—	—	—	—	—	—	—	—	—	—	1,376	0.00	1,376	138	0.00	—	4,816
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161
Stationary	1.04	0.94	2.64	2.41	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	483	483	0.02	< 0.005	0.00	485
Total	94.0	90.0	82.5	255	1.02	1.80	64.0	65.8	1.71	16.5	18.2	2,167	134,394	136,561	225	13.2	264	146,400
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.91	4.39	13.8	32.3	0.18	0.23	11.7	11.9	0.22	3.01	3.24	—	17,103	17,103	0.49	1.80	17.0	17,669
Area	12.0	11.8	0.24	13.5	< 0.005	0.03	—	0.03	0.02	—	0.02	0.00	191	191	< 0.005	< 0.005	—	192
Energy	0.06	0.03	0.51	0.22	< 0.005	0.04	—	0.04	0.04	—	0.04	—	4,529	4,529	0.55	0.06	—	4,561
Water	—	—	—	—	—	—	—	—	—	—	—	131	348	479	13.5	0.32	—	912
Waste	—	—	—	—	—	—	—	—	—	—	—	228	0.00	228	22.8	0.00	—	797
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.7	26.7
Stationary	0.19	0.17	0.48	0.44	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	80.0	80.0	< 0.005	< 0.005	0.00	80.2
Total	17.2	16.4	15.1	46.5	0.19	0.33	11.7	12.0	0.31	3.01	3.33	359	22,250	22,609	37.3	2.19	43.7	24,238

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Industrial Park	2.96	1.61	65.9	19.9	0.66	1.20	24.9	26.1	1.15	6.66	7.80	—	70,642	70,642	1.20	10.5	161	73,963
Single Family Housing	3.50	3.26	2.38	22.9	0.06	0.04	5.58	5.62	0.04	1.42	1.45	—	6,116	6,116	0.25	0.28	14.1	6,220
Apartments Low Rise	3.62	3.37	2.46	23.7	0.06	0.04	5.77	5.81	0.04	1.46	1.50	—	6,325	6,325	0.26	0.29	14.6	6,432
Apartments Mid Rise	5.29	4.92	3.59	34.6	0.09	0.06	8.44	8.50	0.06	2.14	2.20	—	9,248	9,248	0.38	0.42	21.4	9,404
City Park	2.30	2.14	1.55	14.9	0.04	0.03	3.61	3.63	0.02	0.92	0.94	—	3,955	3,955	0.17	0.18	9.14	4,022
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	14.2	13.3	5.16	105	0.23	0.09	24.2	24.3	0.08	6.10	6.18	—	23,485	23,485	0.93	0.63	49.3	23,746
Total	31.8	28.6	81.1	221	1.14	1.45	72.5	73.9	1.38	18.7	20.1	—	119,772	119,772	3.20	12.3	269	123,786
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	2.90	1.55	68.9	20.0	0.66	1.20	24.9	26.1	1.15	6.66	7.80	—	70,665	70,665	1.20	10.5	4.17	73,832
Single Family Housing	3.31	3.06	2.54	19.7	0.06	0.04	5.58	5.62	0.04	1.42	1.45	—	5,749	5,749	0.27	0.29	0.37	5,841
Apartments Low Rise	3.42	3.17	2.63	20.4	0.06	0.04	5.77	5.81	0.04	1.46	1.50	—	5,945	5,945	0.28	0.30	0.38	6,041
Apartments Mid Rise	5.00	4.63	3.84	29.8	0.08	0.06	8.44	8.50	0.06	2.14	2.20	—	8,692	8,692	0.40	0.43	0.55	8,831
City Park	2.18	2.02	1.65	12.8	0.04	0.03	3.61	3.63	0.02	0.92	0.94	—	3,717	3,717	0.17	0.19	0.24	3,777

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	13.6	12.7	5.67	89.7	0.21	0.09	24.2	24.3	0.08	6.10	6.18	—	21,728	21,728	0.99	0.67	1.28	21,953
Total	30.4	27.2	85.2	192	1.11	1.46	72.5	73.9	1.39	18.7	20.1	—	116,497	116,497	3.31	12.4	6.98	120,276
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.47	0.25	11.1	3.18	0.11	0.19	3.95	4.14	0.18	1.06	1.24	—	10,229	10,229	0.17	1.52	10.0	10,697
Single Family Housing	0.59	0.54	0.46	3.64	0.01	0.01	0.99	1.00	0.01	0.25	0.26	—	942	942	0.04	0.05	0.99	959
Apartments Low Rise	0.55	0.51	0.43	3.43	0.01	0.01	0.93	0.94	0.01	0.24	0.24	—	887	887	0.04	0.04	0.93	902
Apartments Mid Rise	0.88	0.81	0.69	5.45	0.02	0.01	1.49	1.50	0.01	0.38	0.39	—	1,409	1,409	0.06	0.07	1.48	1,433
City Park	0.29	0.27	0.22	1.76	< 0.005	< 0.005	0.48	0.48	< 0.005	0.12	0.12	—	452	452	0.02	0.02	0.48	460
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	2.14	2.01	0.93	14.8	0.03	0.01	3.84	3.85	0.01	0.97	0.98	—	3,183	3,183	0.14	0.10	3.08	3,219
Total	4.91	4.39	13.8	32.3	0.18	0.23	11.7	11.9	0.22	3.01	3.24	—	17,103	17,103	0.49	1.80	17.0	17,669

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	20,892	20,892	2.64	0.32	—	21,053
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	734	734	0.09	0.01	—	740
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	783	783	0.10	0.01	—	789
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,395	1,395	0.18	0.02	—	1,406
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	—	23,803	23,803	3.01	0.37	—	23,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	20,892	20,892	2.64	0.32	—	21,053
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	734	734	0.09	0.01	—	740

Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	783	783	0.10	0.01	—	789
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,395	1,395	0.18	0.02	—	1,406
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	—	23,803	23,803	3.01	0.37	—	23,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,459	3,459	0.44	0.05	—	3,486
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	122	122	0.02	< 0.005	—	122
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	130	130	0.02	< 0.005	—	131
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	231	231	0.03	< 0.005	—	233
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	—	3,941	3,941	0.50	0.06	—	3,971

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.12	0.06	0.99	0.42	0.01	0.08	—	0.08	0.08	—	0.08	—	1,254	1,254	0.11	< 0.005	—	1,257
Apartments Low Rise	0.08	0.04	0.69	0.29	< 0.005	0.06	—	0.06	0.06	—	0.06	—	870	870	0.08	< 0.005	—	873
Apartments Mid Rise	0.13	0.07	1.12	0.48	0.01	0.09	—	0.09	0.09	—	0.09	—	1,426	1,426	0.13	< 0.005	—	1,429
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.33	0.16	2.80	1.19	0.02	0.23	—	0.23	0.23	—	0.23	—	3,549	3,549	0.31	0.01	—	3,559
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Single Family Housing	0.12	0.06	0.99	0.42	0.01	0.08	—	0.08	0.08	—	0.08	—	1,254	1,254	0.11	< 0.005	—	1,257
Apartments Low Rise	0.08	0.04	0.69	0.29	< 0.005	0.06	—	0.06	0.06	—	0.06	—	870	870	0.08	< 0.005	—	873
Apartments Mid Rise	0.13	0.07	1.12	0.48	0.01	0.09	—	0.09	0.09	—	0.09	—	1,426	1,426	0.13	< 0.005	—	1,429
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.33	0.16	2.80	1.19	0.02	0.23	—	0.23	0.23	—	0.23	—	3,549	3,549	0.31	0.01	—	3,559
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.02	0.01	0.18	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	208	208	0.02	< 0.005	—	208
Apartments Low Rise	0.01	0.01	0.13	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	144	144	0.01	< 0.005	—	144
Apartments Mid Rise	0.02	0.01	0.20	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	—	236	236	0.02	< 0.005	—	237
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.06	0.03	0.51	0.22	< 0.005	0.04	—	0.04	0.04	—	0.04	—	588	588	0.05	< 0.005	—	589

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.19	0.60	10.2	4.34	0.07	0.82	—	0.82	0.82	—	0.82	0.00	12,949	12,949	0.24	0.02	—	12,963
Consumer Products	51.2	51.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.2	15.0	0.94	108	0.01	0.15	—	0.15	0.11	—	0.11	—	393	393	0.02	< 0.005	—	394
Total	71.9	70.2	11.1	112	0.07	0.97	—	0.97	0.93	—	0.93	0.00	13,342	13,342	0.26	0.03	—	13,357
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.19	0.60	10.2	4.34	0.07	0.82	—	0.82	0.82	—	0.82	0.00	12,949	12,949	0.24	0.02	—	12,963
Consumer Products	51.2	51.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	55.8	55.2	10.2	4.34	0.07	0.82	—	0.82	0.82	—	0.82	0.00	12,949	12,949	0.24	0.02	—	12,963
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	0.01	0.13	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	147	147	< 0.005	< 0.005	—	147
Consumer Products	9.34	9.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.62	0.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.02	1.87	0.12	13.5	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.6	44.6	< 0.005	< 0.005	—	44.7
Total	12.0	11.8	0.24	13.5	< 0.005	0.03	—	0.03	0.02	—	0.02	0.00	191	191	< 0.005	< 0.005	—	192

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	743	1,885	2,628	76.4	1.84	—	5,086
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.57	116	125	0.89	0.02	—	154

Apartments	—	—	—	—	—	—	—	—	—	—	—	12.5	31.7	44.1	1.28	0.03	—	85.4
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	26.9	68.3	95.1	2.77	0.07	—	184
City Park	—	—	—	—	—	—	—	—	—	—	—	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	—	—	—	—	—	—	—	—	—	—	—	791	2,102	2,892	81.3	1.96	—	5,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	743	1,885	2,628	76.4	1.84	—	5,086
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.57	116	125	0.89	0.02	—	154
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	12.5	31.7	44.1	1.28	0.03	—	85.4
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	26.9	68.3	95.1	2.77	0.07	—	184
City Park	—	—	—	—	—	—	—	—	—	—	—	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	—	—	—	—	—	—	—	—	—	—	—	791	2,102	2,892	81.3	1.96	—	5,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	123	312	435	12.6	0.30	—	842
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.42	19.3	20.7	0.15	< 0.005	—	25.5
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.06	5.24	7.31	0.21	0.01	—	14.1
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4.45	11.3	15.8	0.46	0.01	—	30.5
City Park	—	—	—	—	—	—	—	—	—	—	—	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	—	—	—	—	—	—	—	—	—	—	—	131	348	479	13.5	0.32	—	912

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,120	0.00	1,120	112	0.00	—	3,919
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	63.8	0.00	63.8	6.38	0.00	—	223
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	137	0.00	137	13.7	0.00	—	481
City Park	—	—	—	—	—	—	—	—	—	—	—	0.76	0.00	0.76	0.08	0.00	—	2.68
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	—	—	—	—	—	—	—	—	—	—	—	1,376	0.00	1,376	138	0.00	—	4,816
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,120	0.00	1,120	112	0.00	—	3,919
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	63.8	0.00	63.8	6.38	0.00	—	223
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	137	0.00	137	13.7	0.00	—	481

City Park	—	—	—	—	—	—	—	—	—	—	—	0.76	0.00	0.76	0.08	0.00	—	2.68
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	—	—	—	—	—	—	—	—	—	—	—	1,376	0.00	1,376	138	0.00	—	4,816
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	185	0.00	185	18.5	0.00	—	649
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.98	0.00	8.98	0.90	0.00	—	31.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	10.6	0.00	10.6	1.06	0.00	—	36.9
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	22.8	0.00	22.8	2.27	0.00	—	79.6
City Park	—	—	—	—	—	—	—	—	—	—	—	0.13	0.00	0.13	0.01	0.00	—	0.44
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	—	—	—	—	—	—	—	—	—	—	—	228	0.00	228	22.8	0.00	—	797

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	157	157
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.37	1.37
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.09	1.09
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.12	2.12
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	157	157
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.37	1.37
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.09	1.09
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.12	2.12

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.9	25.9
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18	0.18
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35	0.35
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.7	26.7

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Total	7.57	6.89	19.3	17.6	0.03	1.01	0.00	1.01	1.01	0.00	1.01	0.00	3,526	3,526	0.14	0.03	0.00	3,538
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Total	7.57	6.89	19.3	17.6	0.03	1.01	0.00	1.01	1.01	0.00	1.01	0.00	3,526	3,526	0.14	0.03	0.00	3,538
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency Generator	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Total	0.19	0.17	0.48	0.44	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	80.0	80.0	< 0.005	< 0.005	0.00	80.2

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
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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
Industrial Park	954	719	350	304,438	28,576	21,545	10,496	9,120,976
Single Family Housing	1,037	1,043	933	373,452	7,846	7,887	7,055	2,824,603
Apartments Low Rise	1,078	728	618	351,318	8,156	5,506	4,671	2,657,188
Apartments Mid Rise	1,566	1,577	1,301	558,387	11,847	11,925	9,837	4,223,358
City Park	689	32.3	36.1	183,213	5,096	239	267	1,355,110
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	4,695	3,539	1,728	1,498,767	34,728	26,173	12,783	11,085,424

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	110
Propane Fireplaces	0
Electric Fireplaces	0

No Fireplaces	0
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	160
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	345
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	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)
1448482.5	482,828	2,514,447	838,149	14,375

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)
Industrial Park	29,239,955	261	0.0330	0.0040	0.00
Single Family Housing	1,027,317	261	0.0330	0.0040	3,912,075
Apartments Low Rise	1,095,486	261	0.0330	0.0040	2,715,236
Apartments Mid Rise	1,952,410	261	0.0330	0.0040	4,448,020
City Park	0.00	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

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Industrial Park	387,643,913	0.00
Single Family Housing	4,474,115	24,968,435
Apartments Low Rise	6,507,804	0.00
Apartments Mid Rise	14,032,452	0.00
City Park	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	2,079	—
Single Family Housing	101	—
Apartments Low Rise	118	—

Apartments Mid Rise	255	—
City Park	1.42	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	User Defined	150	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	7.00	1.00	50.0	300	0.73
Fire Pump	Diesel	7.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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 $\frac{3}{4}$ 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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—

Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702

Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—

Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip Rates taken from trip generation Trip lengths adjusted per SCAQMD weighted truck axle split (15.3 miles for 2-axle, 14.2 miles for 3-axle and 39.9 miles for 4-axle trucks)
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	SCAQMD Rule 445 no wood burning devices. Wood burning devices added to gas devices.
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural Gas will not be utilized
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. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

ATTACHMENT C

**CALEEMOD PHASE 1 PROJECT BUILDOUT OPERATIONAL
EMISSIONS MODEL OUTPUTS – SCENARIO A**

15605-Harvest Landing Operations (Phase 1) SCAQMD TL Project Buildout Detailed Report

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4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15605-Harvest Landing Operations (Phase 1) SCAQMD TL Project Buildout
Operational Year	2030
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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	1,207	1000sqft	27.7	1,207,000	523,530	—	—	TUMF High Cube (Building 2, 6, and 7)

Unrefrigerated Warehouse-No Rail	322	1000sqft	7.39	322,079	545,221	—	—	Parcel Hub (Building 1)
Industrial Park	199	1000sqft	4.56	198,500	170,328	—	—	General Light Industrial (Building 3, 4, and 5)
Medical Office Building	5.50	1000sqft	0.13	5,500	4,359	—	—	Medical Office Building
Supermarket	167	1000sqft	3.83	167,050	132,388	—	—	Large Format Retail Anchor
Regional Shopping Center	190	1000sqft	4.36	189,845	150,454	—	—	Shopping Center
Supermarket	23.3	1000sqft	0.53	23,256	18,431	—	—	Supermarket
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.21	8,934	7,080	—	—	Fast Casual Restaurant
High Turnover (Sit Down Restaurant)	21.1	1000sqft	0.48	21,122	16,739	—	—	High-Turnover (Sit -Down) Restaurant
Fast Food Restaurant with Drive Thru	11.0	1000sqft	0.25	11,000	8,718	—	—	Fast Food Restaurant w DT
Fast Food Restaurant with Drive Thru	1.80	1000sqft	0.04	1,800	1,427	—	—	Coffee/Donut Shop w DT
Gasoline/Service Station	12.0	Pump	0.04	10,228	8,106	—	—	Gasoline/Service Station (12 VFP)
Parking Lot	3,286	Space	25.8	0.00	0.00	—	—	—
Other Asphalt Surfaces	160	Acre	160	0.00	0.00	—	—	—
User Defined Industrial	1,728	User Defined Unit	0.00	0.00	0.00	—	—	PC Trips

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances

Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

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.	203	193	130	850	2.20	3.05	180	184	2.91	46.0	48.9	2,765	245,339	248,104	290	16.7	2,055	262,399
Mit.	186	177	130	756	2.19	2.88	180	183	2.78	46.0	48.7	1,487	242,703	244,190	162	16.1	2,055	255,085
% Reduced	8%	8%	1%	11%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	4%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	179	170	137	667	2.08	2.89	180	183	2.79	46.0	48.7	2,765	233,893	236,658	291	17.0	1,566	250,560
Mit.	179	170	137	667	2.08	2.89	180	183	2.79	46.0	48.7	1,487	231,602	233,089	162	16.4	1,566	243,591
% Reduced	—	—	—	—	—	—	—	—	—	—	—	46%	1%	2%	44%	4%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	164	155	106	625	1.75	1.98	150	152	1.87	38.1	40.0	2,765	199,255	202,020	289	14.9	1,735	215,425
Mit.	152	145	106	561	1.75	1.86	150	151	1.78	38.1	39.9	1,487	196,728	198,215	160	14.3	1,735	208,220
% Reduced	7%	7%	1%	10%	< 0.5%	6%	—	< 0.5%	5%	—	< 0.5%	46%	1%	2%	45%	4%	—	3%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29.8	28.4	19.4	114	0.32	0.36	27.3	27.7	0.34	6.95	7.29	458	32,989	33,447	47.9	2.47	287	35,666
Mit.	27.7	26.4	19.3	102	0.32	0.34	27.3	27.6	0.32	6.95	7.28	246	32,571	32,817	26.6	2.37	287	34,473
% Reduced	7%	7%	1%	10%	< 0.5%	6%	—	< 0.5%	5%	—	< 0.5%	46%	1%	2%	45%	4%	—	3%

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	129	121	111	739	2.15	1.82	180	182	1.71	46.0	47.7	—	221,396	221,396	9.10	14.3	503	226,393
Area	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	203	193	130	850	2.20	3.05	180	184	2.91	46.0	48.9	2,765	245,339	248,104	290	16.7	2,055	262,399
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	114	117	650	2.04	1.82	180	182	1.72	46.0	47.7	—	210,338	210,338	9.60	14.6	13.0	214,942
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553

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Stationa	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	179	170	137	667	2.08	2.89	180	183	2.79	46.0	48.7	2,765	233,893	236,658	291	17.0	1,566	250,560
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	100	93.5	101	556	1.73	1.55	150	151	1.46	38.1	39.6	—	178,042	178,042	8.02	12.5	182	182,158
Area	61.9	61.0	0.54	64.5	< 0.005	0.11	—	0.11	0.09	—	0.09	—	265	265	0.01	< 0.005	—	266
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationa ry	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415
Total	164	155	106	625	1.75	1.98	150	152	1.87	38.1	40.0	2,765	199,255	202,020	289	14.9	1,735	215,425
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.3	17.1	18.4	102	0.31	0.28	27.3	27.6	0.27	6.95	7.22	—	29,477	29,477	1.33	2.07	30.2	30,158
Area	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,021	3,021	0.36	0.04	—	3,041
Water	—	—	—	—	—	—	—	—	—	—	—	143	379	522	14.7	0.35	—	995
Waste	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationa ry	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	29.8	28.4	19.4	114	0.32	0.36	27.3	27.7	0.34	6.95	7.29	458	32,989	33,447	47.9	2.47	287	35,666

2.6. Operations Emissions by Sector, Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Mobile	129	121	111	739	2.15	1.82	180	182	1.71	46.0	47.7	—	221,396	221,396	9.10	14.3	503	226,393
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,618	16,618	1.98	0.21	—	16,731
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	186	177	130	756	2.19	2.88	180	183	2.78	46.0	48.7	1,487	242,703	244,190	162	16.1	2,055	255,085
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	114	117	650	2.04	1.82	180	182	1.72	46.0	47.7	—	210,338	210,338	9.60	14.6	13.0	214,942
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,575	16,575	1.98	0.21	—	16,687
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	179	170	137	667	2.08	2.89	180	183	2.79	46.0	48.7	1,487	231,602	233,089	162	16.4	1,566	243,591
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	100	93.5	101	556	1.73	1.55	150	151	1.46	38.1	39.6	—	178,042	178,042	8.02	12.5	182	182,158
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,605	16,605	1.98	0.21	—	16,717
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415

Total	152	145	106	561	1.75	1.86	150	151	1.78	38.1	39.9	1,487	196,728	198,215	160	14.3	1,735	208,220
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.3	17.1	18.4	102	0.31	0.28	27.3	27.6	0.27	6.95	7.22	—	29,477	29,477	1.33	2.07	30.2	30,158
Area	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	2,749	2,749	0.33	0.04	—	2,768
Water	—	—	—	—	—	—	—	—	—	—	—	104	276	380	10.7	0.26	—	723
Waste	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	27.7	26.4	19.3	102	0.32	0.34	27.3	27.6	0.32	6.95	7.28	246	32,571	32,817	26.6	2.37	287	34,473

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	1.41	0.77	31.2	9.44	0.31	0.57	11.8	12.4	0.54	3.16	3.70	—	33,451	33,451	0.57	4.97	76.2	35,023
Industrial Park	0.28	0.15	6.29	1.90	0.06	0.11	2.37	2.49	0.11	0.63	0.74	—	6,735	6,735	0.11	1.00	15.3	7,052

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Medical Office Building	0.66	0.62	0.44	4.27	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,136	1,136	0.05	0.05	2.63	1,156
Supermarket	43.2	40.5	27.1	255	0.65	0.43	59.9	60.3	0.40	15.2	15.6	—	66,020	66,020	2.96	3.11	152	67,173
Regional Shopping Center	29.5	27.5	19.9	191	0.50	0.33	46.3	46.6	0.31	11.7	12.1	—	50,776	50,776	2.13	2.31	117	51,636
High Turnover (Sit Down Restaurant)	12.5	11.8	7.73	72.6	0.18	0.12	16.9	17.0	0.11	4.29	4.40	—	18,647	18,647	0.85	0.89	42.8	18,975
Fast Food Restaurant with Drive Thru	22.9	21.9	10.6	91.0	0.19	0.14	17.1	17.3	0.13	4.35	4.47	—	19,550	19,550	1.28	1.14	43.4	19,965
Gasoline/Service Station	6.41	6.15	2.86	24.1	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,981	4,981	0.35	0.30	11.0	5,091
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	12.1	11.4	4.42	89.7	0.20	0.08	20.7	20.8	0.07	5.22	5.29	—	20,099	20,099	0.80	0.54	42.2	20,322
Total	129	121	111	739	2.15	1.82	180	182	1.71	46.0	47.7	—	221,396	221,396	9.10	14.3	503	226,393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Unrefrig erated	1.37	0.74	32.6	9.50	0.31	0.57	11.8	12.4	0.54	3.16	3.70	—	33,462	33,462	0.57	4.98	1.98	34,960
Industria l Park	0.28	0.15	6.57	1.91	0.06	0.11	2.37	2.49	0.11	0.63	0.74	—	6,737	6,737	0.11	1.00	0.40	7,039
Medical Office Building	0.63	0.58	0.48	3.68	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,068	1,068	0.05	0.05	0.07	1,085
Superm arket	40.8	38.0	28.9	223	0.61	0.43	59.9	60.3	0.40	15.2	15.6	—	62,080	62,080	3.12	3.21	3.94	63,118
Regiona l Shoppin g Center	27.9	25.9	21.2	164	0.47	0.33	46.3	46.6	0.31	11.7	12.1	—	47,728	47,728	2.23	2.39	3.04	48,498
High Turnover (Sit Down Restaurant)	11.8	11.1	8.27	63.5	0.17	0.12	16.9	17.0	0.11	4.29	4.40	—	17,536	17,536	0.90	0.91	1.11	17,832
Fast Food Restaurant with Drive Thru	21.6	20.6	11.3	84.7	0.18	0.14	17.1	17.3	0.13	4.35	4.47	—	18,433	18,433	1.39	1.18	1.13	18,819
Gasolin e/Service Station	6.04	5.76	3.05	22.6	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,699	4,699	0.38	0.31	0.28	4,802
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	11.6	10.9	4.85	76.8	0.18	0.08	20.7	20.8	0.07	5.22	5.29	—	18,595	18,595	0.85	0.57	1.09	18,788

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Total	122	114	117	650	2.04	1.82	180	182	1.72	46.0	47.7	—	210,338	210,338	9.60	14.6	13.0	214,942
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	0.22	0.12	5.32	1.53	0.05	0.09	1.90	1.99	0.09	0.51	0.60	—	4,905	4,905	0.08	0.73	4.83	5,129
Industria l Park	0.05	0.03	1.14	0.33	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,054	1,054	0.02	0.16	1.03	1,102
Medical Office Building	0.09	0.08	0.07	0.54	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	138	138	0.01	0.01	0.15	140
Superm arket	6.18	5.76	4.49	35.2	0.09	0.07	9.13	9.19	0.06	2.32	2.38	—	8,708	8,708	0.43	0.45	9.11	8,862
Regiona l Shoppin g Center	3.88	3.59	3.02	23.8	0.07	0.05	6.46	6.50	0.04	1.64	1.68	—	6,127	6,127	0.28	0.31	6.44	6,232
High Turnover (Sit Down Restaurant)	1.81	1.69	1.29	10.1	0.03	0.02	2.60	2.61	0.02	0.66	0.68	—	2,480	2,480	0.13	0.13	2.59	2,524
Fast Food Restaurant with Drive Thru	3.19	3.04	1.71	13.0	0.03	0.02	2.55	2.57	0.02	0.65	0.67	—	2,524	2,524	0.19	0.16	2.54	2,579
Gasolin e/Service Station	1.03	0.98	0.53	4.01	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	744	744	0.06	0.05	0.74	761
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	1.88	1.76	0.82	13.0	0.03	0.01	3.37	3.38	0.01	0.85	0.86	—	2,798	2,798	0.13	0.09	2.71	2,830
Total	18.3	17.1	18.4	102	0.31	0.28	27.3	27.6	0.27	6.95	7.22	—	29,477	29,477	1.33	2.07	30.2	30,158

4.1.2. Mitigated

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	1.41	0.77	31.2	9.44	0.31	0.57	11.8	12.4	0.54	3.16	3.70	—	33,451	33,451	0.57	4.97	76.2	35,023
Industrial Park	0.28	0.15	6.29	1.90	0.06	0.11	2.37	2.49	0.11	0.63	0.74	—	6,735	6,735	0.11	1.00	15.3	7,052
Medical Office Building	0.66	0.62	0.44	4.27	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,136	1,136	0.05	0.05	2.63	1,156
Supermarket	43.2	40.5	27.1	255	0.65	0.43	59.9	60.3	0.40	15.2	15.6	—	66,020	66,020	2.96	3.11	152	67,173
Regional Shopping Center	29.5	27.5	19.9	191	0.50	0.33	46.3	46.6	0.31	11.7	12.1	—	50,776	50,776	2.13	2.31	117	51,636

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High Turnover (Sit Down Restaurant)	12.5	11.8	7.73	72.6	0.18	0.12	16.9	17.0	0.11	4.29	4.40	—	18,647	18,647	0.85	0.89	42.8	18,975
Fast Food Restaurant with Drive Thru	22.9	21.9	10.6	91.0	0.19	0.14	17.1	17.3	0.13	4.35	4.47	—	19,550	19,550	1.28	1.14	43.4	19,965
Gasoline/Service Station	6.41	6.15	2.86	24.1	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,981	4,981	0.35	0.30	11.0	5,091
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	12.1	11.4	4.42	89.7	0.20	0.08	20.7	20.8	0.07	5.22	5.29	—	20,099	20,099	0.80	0.54	42.2	20,322
Total	129	121	111	739	2.15	1.82	180	182	1.71	46.0	47.7	—	221,396	221,396	9.10	14.3	503	226,393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.37	0.74	32.6	9.50	0.31	0.57	11.8	12.4	0.54	3.16	3.70	—	33,462	33,462	0.57	4.98	1.98	34,960
Industrial Park	0.28	0.15	6.57	1.91	0.06	0.11	2.37	2.49	0.11	0.63	0.74	—	6,737	6,737	0.11	1.00	0.40	7,039
Medical Office Building	0.63	0.58	0.48	3.68	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,068	1,068	0.05	0.05	0.07	1,085

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Superm	40.8	38.0	28.9	223	0.61	0.43	59.9	60.3	0.40	15.2	15.6	—	62,080	62,080	3.12	3.21	3.94	63,118
Regiona l Shoppin g Center	27.9	25.9	21.2	164	0.47	0.33	46.3	46.6	0.31	11.7	12.1	—	47,728	47,728	2.23	2.39	3.04	48,498
High Turnover (Sit Down Restaurant)	11.8	11.1	8.27	63.5	0.17	0.12	16.9	17.0	0.11	4.29	4.40	—	17,536	17,536	0.90	0.91	1.11	17,832
Fast Food Restaurant with Drive Thru	21.6	20.6	11.3	84.7	0.18	0.14	17.1	17.3	0.13	4.35	4.47	—	18,433	18,433	1.39	1.18	1.13	18,819
Gasolin e/Service Station	6.04	5.76	3.05	22.6	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,699	4,699	0.38	0.31	0.28	4,802
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	11.6	10.9	4.85	76.8	0.18	0.08	20.7	20.8	0.07	5.22	5.29	—	18,595	18,595	0.85	0.57	1.09	18,788
Total	122	114	117	650	2.04	1.82	180	182	1.72	46.0	47.7	—	210,338	210,338	9.60	14.6	13.0	214,942
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	0.22	0.12	5.32	1.53	0.05	0.09	1.90	1.99	0.09	0.51	0.60	—	4,905	4,905	0.08	0.73	4.83	5,129

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Industrial Park	0.05	0.03	1.14	0.33	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,054	1,054	0.02	0.16	1.03	1,102
Medical Office Building	0.09	0.08	0.07	0.54	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	138	138	0.01	0.01	0.15	140
Supermarket	6.18	5.76	4.49	35.2	0.09	0.07	9.13	9.19	0.06	2.32	2.38	—	8,708	8,708	0.43	0.45	9.11	8,862
Regional Shopping Center	3.88	3.59	3.02	23.8	0.07	0.05	6.46	6.50	0.04	1.64	1.68	—	6,127	6,127	0.28	0.31	6.44	6,232
High Turnover (Sit Down Restaurant)	1.81	1.69	1.29	10.1	0.03	0.02	2.60	2.61	0.02	0.66	0.68	—	2,480	2,480	0.13	0.13	2.59	2,524
Fast Food Restaurant with Drive Thru	3.19	3.04	1.71	13.0	0.03	0.02	2.55	2.57	0.02	0.65	0.67	—	2,524	2,524	0.19	0.16	2.54	2,579
Gasoline/Service Station	1.03	0.98	0.53	4.01	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	744	744	0.06	0.05	0.74	761
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	1.88	1.76	0.82	13.0	0.03	0.01	3.37	3.38	0.01	0.85	0.86	—	2,798	2,798	0.13	0.09	2.71	2,830
Total	18.3	17.1	18.4	102	0.31	0.28	27.3	27.6	0.27	6.95	7.22	—	29,477	29,477	1.33	2.07	30.2	30,158

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	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,474	2,474	0.31	0.04	—	2,493
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.1
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	4,362	4,362	0.55	0.07	—	4,396
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,324	1,324	0.17	0.02	—	1,334
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	754	754	0.10	0.01	—	760

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	321	321	0.04	< 0.005	—	324
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
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	—	—	—	—	—	—	—	—	—	—	—	—	15,105	15,105	1.91	0.23	—	15,222
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,474	2,474	0.31	0.04	—	2,493
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.1
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	4,362	4,362	0.55	0.07	—	4,396

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	—	1,324	1,324	0.17	0.02	—	1,334
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	754	754	0.10	0.01	—	760
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	321	321	0.04	< 0.005	—	324
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
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	—	—	—	—	—	—	—	—	—	—	—	—	15,105	15,105	1.91	0.23	—	15,222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	832	832	0.11	0.01	—	839
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	410	410	0.05	0.01	—	413

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3	< 0.005	< 0.005	—	11.4
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	722	722	0.09	0.01	—	728
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	219	219	0.03	< 0.005	—	221
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.02	< 0.005	—	126
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	53.2	53.2	0.01	< 0.005	—	53.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.01	< 0.005	—	117
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	—	—	—	—	—	—	—	—	—	—	—	—	2,501	2,501	0.32	0.04	—	2,520

4.2.2. Electricity Emissions By Land Use - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	5,059	5,059	0.64	0.08	—	5,098
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,477	2,477	0.31	0.04	—	2,496
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.6	68.6	0.01	< 0.005	—	69.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	2,883	2,883	0.36	0.04	—	2,905
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,310	1,310	0.17	0.02	—	1,320
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	637	637	0.08	0.01	—	642
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.03	< 0.005	—	273
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.4

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
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	—	—	—	—	—	—	—	—	—	—	—	—	13,478	13,478	1.71	0.21	—	13,583
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,473	2,473	0.31	0.04	—	2,492
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	2,879	2,879	0.36	0.04	—	2,901
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,306	1,306	0.17	0.02	—	1,316
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	637	637	0.08	0.01	—	641

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.03	< 0.005	—	273
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.7	69.7	0.01	< 0.005	—	70.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
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	—	—	—	—	—	—	—	—	—	—	—	—	13,435	13,435	1.70	0.21	—	13,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	836	836	0.11	0.01	—	842
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	410	410	0.05	0.01	—	413
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	11.4	11.4	< 0.005	< 0.005	—	11.4
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	477	477	0.06	0.01	—	481
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	217	217	0.03	< 0.005	—	218

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	105	105	0.01	< 0.005	—	106
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	44.9	44.9	0.01	< 0.005	—	45.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.01	< 0.005	—	117
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	—	—	—	—	—	—	—	—	—	—	—	—	2,229	2,229	0.28	0.03	—	2,246

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

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Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149

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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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

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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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7

Gasoline/Service	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027

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Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
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

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Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig 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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7
Gasoline/Service Station	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521
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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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.8	15.5	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Total	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.10	1.94	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Total	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1

4.3.2. Mitigated

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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	678	1,784	2,462	69.7	1.68	—	4,704

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	234	321	9.05	0.22	—	613
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	3.62	4.94	0.14	< 0.005	—	9.32
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	123	168	4.62	0.11	—	317
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	77.4	104	2.77	0.07	—	194
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	45.8	63.3	1.80	0.04	—	121
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	19.5	27.0	0.77	0.02	—	51.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.26	1.57	0.03	< 0.005	—	2.58
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	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	678	1,784	2,462	69.7	1.68	—	4,704
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	234	321	9.05	0.22	—	613
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	3.62	4.94	0.14	< 0.005	—	9.32
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	123	168	4.62	0.11	—	317
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	77.4	104	2.77	0.07	—	194
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	45.8	63.3	1.80	0.04	—	121
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	19.5	27.0	0.77	0.02	—	51.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.26	1.57	0.03	< 0.005	—	2.58
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	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	112	295	408	11.5	0.28	—	779
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	14.6	38.7	53.2	1.50	0.04	—	101
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.22	0.60	0.82	0.02	< 0.005	—	1.54
Superm arket	—	—	—	—	—	—	—	—	—	—	—	7.44	20.4	27.8	0.77	0.02	—	52.5
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	4.46	12.8	17.3	0.46	0.01	—	32.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.89	7.58	10.5	0.30	0.01	—	20.1
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.23	3.23	4.46	0.13	< 0.005	—	8.54

Gasoline/Service	—	—	—	—	—	—	—	—	—	—	—	0.05	0.21	0.26	0.01	< 0.005	—	0.43
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	—	—	—	—	—	—	—	—	—	—	—	143	379	522	14.7	0.35	—	995

4.4.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	491	1,297	1,788	50.5	1.22	—	3,413
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	170	234	6.56	0.16	—	445
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	2.64	3.60	0.10	< 0.005	—	6.77
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	92.3	126	3.45	0.08	—	237

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	56.9	76.4	2.01	0.05	—	141
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	33.2	45.8	1.30	0.03	—	87.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	14.1	19.5	0.55	0.01	—	37.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	0.95	1.17	0.02	< 0.005	—	1.90
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	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,297	1,788	50.5	1.22	—	3,413

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	170	234	6.56	0.16	—	445
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	2.64	3.60	0.10	< 0.005	—	6.77
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	92.3	126	3.45	0.08	—	237
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	56.9	76.4	2.01	0.05	—	141
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	33.2	45.8	1.30	0.03	—	87.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	14.1	19.5	0.55	0.01	—	37.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	0.95	1.17	0.02	< 0.005	—	1.90
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	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.3	215	296	8.36	0.20	—	565
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10.5	28.1	38.7	1.09	0.03	—	73.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.16	0.44	0.60	0.02	< 0.005	—	1.12
Supermarket	—	—	—	—	—	—	—	—	—	—	—	5.55	15.3	20.8	0.57	0.01	—	39.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.24	9.41	12.7	0.33	0.01	—	23.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.09	5.50	7.59	0.22	0.01	—	14.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.89	2.34	3.23	0.09	< 0.005	—	6.18
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.04	0.16	0.19	< 0.005	< 0.005	—	0.32
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	—	—	—	—	—	—	—	—	—	—	—	104	276	380	10.7	0.26	—	723
-------	---	---	---	---	---	---	---	---	---	---	---	-----	-----	-----	------	------	---	-----

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	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674

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Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	449
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	76.8

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	5.30	0.00	5.30	0.53	0.00	—	18.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	95.8	0.00	95.8	9.57	0.00	—	335
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	17.8	0.00	17.8	1.78	0.00	—	62.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	13.2	0.00	13.2	1.31	0.00	—	46.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.02
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	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101

4.5.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10

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	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10
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	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.3	0.00	51.3	5.13	0.00	—	179
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.78	0.00	8.78	0.88	0.00	—	30.7
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	2.65	0.00	2.65	0.26	0.00	—	9.27
Supermarket	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	8.89	0.00	8.89	0.89	0.00	—	31.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.59	0.00	—	55.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.58	0.00	6.58	0.66	0.00	—	23.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.29	0.00	0.29	0.03	0.00	—	1.01
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	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.6.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.8.2. Mitigated

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	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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	267	127	119	82,384	7,986	3,794	3,578	2,466,571
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	5,560	4,462	4,404	1,911,937
Industrial Park	90.9	73.8	72.8	31,351	2,725	2,213	2,183	939,596
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212
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5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	267	127	119	82,384	7,986	3,794	3,578	2,466,571
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	5,560	4,462	4,404	1,911,937
Industrial Park	90.9	73.8	72.8	31,351	2,725	2,213	2,183	939,596
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	3,249,471	1,083,157	485,764

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
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Unrefrigerated Warehouse-No Rail	5,555,038	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	261	0.0330	0.0040	0.00
Industrial Park	3,462,470	261	0.0330	0.0040	0.00
Medical Office Building	95,937	261	0.0330	0.0040	151,727
Supermarket	5,358,917	261	0.0330	0.0040	2,803,892
Regional Shopping Center	1,852,582	261	0.0330	0.0040	1,124,295
Supermarket	746,046	261	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	313,717	261	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	741,697	261	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	386,264	261	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	63,207	261	0.0330	0.0040	205,306
Gasoline/Service Station	97,872	261	0.0330	0.0040	439,296
Parking Lot	984,872	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

5.11.2. Mitigated

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	5,555,038	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	261	0.0330	0.0040	0.00
Industrial Park	3,460,731	261	0.0330	0.0040	0.00
Medical Office Building	95,889	261	0.0330	0.0040	151,727

Supermarket	3,536,697	261	0.0330	0.0040	2,803,892
Regional Shopping Center	1,827,696	261	0.0330	0.0040	1,124,295
Supermarket	492,364	261	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	264,822	261	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	626,100	261	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	326,063	261	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	53,356	261	0.0330	0.0040	205,306
Gasoline/Service Station	97,555	261	0.0330	0.0040	439,296
Parking Lot	984,872	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

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	279,118,750	8,300,940
Unrefrigerated Warehouse-No Rail	74,480,769	8,644,867
Industrial Park	45,903,125	2,700,672
Medical Office Building	690,143	69,115
Supermarket	20,591,955	2,099,106
Regional Shopping Center	14,062,298	2,385,555
Supermarket	2,866,726	292,237
High Turnover (Sit Down Restaurant)	2,711,770	112,258
High Turnover (Sit Down Restaurant)	6,411,239	265,409
Fast Food Restaurant with Drive Thru	3,338,871	138,230

Fast Food Restaurant with Drive Thru	546,361	22,626
Gasoline/Service Station	159,383	128,526
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	202,193,623	6,640,752
Unrefrigerated Warehouse-No Rail	53,953,869	6,915,893
Industrial Park	33,252,224	2,160,537
Medical Office Building	499,940	55,292
Supermarket	15,348,420	1,679,285
Regional Shopping Center	10,203,603	1,908,444
Supermarket	2,136,743	233,789
High Turnover (Sit Down Restaurant)	1,958,983	89,807
High Turnover (Sit Down Restaurant)	4,631,479	212,327
Fast Food Restaurant with Drive Thru	2,412,000	110,584
Fast Food Restaurant with Drive Thru	394,691	18,101
Gasoline/Service Station	115,138	102,821
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
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Unrefrigerated Warehouse-No Rail	1,135	—
Unrefrigerated Warehouse-No Rail	303	—
Industrial Park	246	—
Medical Office Building	59.4	—
Supermarket	942	—
Regional Shopping Center	199	—
Supermarket	131	—
High Turnover (Sit Down Restaurant)	106	—
High Turnover (Sit Down Restaurant)	251	—
Fast Food Restaurant with Drive Thru	127	—
Fast Food Restaurant with Drive Thru	20.7	—
Gasoline/Service Station	6.47	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	454	—
Unrefrigerated Warehouse-No Rail	121	—
Industrial Park	98.5	—
Medical Office Building	29.7	—
Supermarket	471	—
Regional Shopping Center	99.7	—
Supermarket	65.6	—
High Turnover (Sit Down Restaurant)	53.2	—
High Turnover (Sit Down Restaurant)	126	—
Fast Food Restaurant with Drive Thru	63.4	—

Fast Food Restaurant with Drive Thru	10.4	—
Gasoline/Service Station	3.23	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

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Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.15.2. Mitigated

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

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	7.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	5.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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 $\frac{3}{4}$ 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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—

Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4

English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted Schedule compressed based on Opening Year of 2026 and Demolition, Site prep, Grading and Building construction dates adjusted based on ratio of default schedule. Paving and architectural coating work days are based on defaults
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per SCAQMD weighted truck axle split (15.3 miles for 2-axle, 14.2 miles for 3-axle and 39.9 miles for 4-axle trucks)
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: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural gas will not be utilized for the industrial Portion of the project. Commercial Portion will utilize Natural Gas
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater

ATTACHMENT D
CALEEMOD PHASE 1 OPERATIONAL EMISSIONS MODEL OUTPUTS
– SCENARIO B

15605-Harvest Landing Operations (Phase 1) VMT TL Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15605-Harvest Landing Operations (Phase 1) VMT TL
Operational Year	2026
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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	1,207	1000sqft	27.7	1,207,000	523,530	—	—	TUMF High Cube (Building 2, 6, and 7)

Unrefrigerated Warehouse-No Rail	322	1000sqft	7.39	322,079	545,221	—	—	Parcel Hub (Building 1)
Industrial Park	199	1000sqft	4.56	198,500	170,328	—	—	General Light Industrial (Building 3, 4, and 5)
Medical Office Building	5.50	1000sqft	0.13	5,500	4,359	—	—	Medical Office Building
Supermarket	167	1000sqft	3.83	167,050	132,388	—	—	Large Format Retail Anchor
Regional Shopping Center	190	1000sqft	4.36	189,845	150,454	—	—	Shopping Center
Supermarket	23.3	1000sqft	0.53	23,256	18,431	—	—	Supermarket
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.21	8,934	7,080	—	—	Fast Casual Restaurant
High Turnover (Sit Down Restaurant)	21.1	1000sqft	0.48	21,122	16,739	—	—	High-Turnover (Sit -Down) Restaurant
Fast Food Restaurant with Drive Thru	11.0	1000sqft	0.25	11,000	8,718	—	—	Fast Food Restaurant w DT
Fast Food Restaurant with Drive Thru	1.80	1000sqft	0.04	1,800	1,427	—	—	Coffee/Donut Shop w DT
Gasoline/Service Station	12.0	Pump	0.04	10,228	8,106	—	—	Gasoline/Service Station (12 VFP)
Parking Lot	3,286	Space	25.8	0.00	0.00	—	—	—
Other Asphalt Surfaces	160	Acre	160	0.00	0.00	—	—	—
User Defined Industrial	1,728	User Defined Unit	0.00	0.00	0.00	—	—	PC Trips

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances

Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

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.	233	220	191	1,005	2.73	4.00	193	197	3.81	49.2	53.0	2,765	306,704	309,468	292	23.8	2,459	326,316
Mit.	216	205	190	910	2.72	3.83	193	196	3.69	49.2	52.9	1,487	303,332	304,819	164	23.1	2,459	318,266
% Reduced	7%	7%	< 0.5%	9%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	46%	1%	2%	44%	3%	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	206	195	200	803	2.60	3.84	193	196	3.69	49.2	52.9	2,765	294,359	297,124	293	24.1	1,576	313,201
Mit.	206	195	200	803	2.60	3.84	193	196	3.69	49.2	52.9	1,487	291,317	292,804	164	23.5	1,576	305,482
% Reduced	—	—	—	—	—	—	—	—	—	—	—	46%	1%	1%	44%	3%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	186	176	162	743	2.20	2.81	160	163	2.66	41.0	43.7	2,765	253,144	255,909	291	21.2	1,883	271,382
Mit.	174	165	162	678	2.20	2.70	160	163	2.57	41.0	43.6	1,487	249,876	251,363	162	20.6	1,883	263,436
% Reduced	6%	6%	< 0.5%	9%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	46%	1%	2%	44%	3%	—	3%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	33.9	32.1	29.6	136	0.40	0.51	29.3	29.8	0.48	7.48	7.97	458	41,911	42,369	48.2	3.51	312	44,930
Mit.	31.8	30.1	29.5	124	0.40	0.49	29.3	29.8	0.47	7.48	7.95	246	41,370	41,616	26.9	3.41	312	43,615
% Reduced	6%	6%	< 0.5%	9%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	46%	1%	2%	44%	3%	—	3%

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	159	148	171	893	2.68	2.76	193	195	2.62	49.2	51.8	—	277,064	277,064	11.2	21.3	907	284,613
Area	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	233	220	191	1,005	2.73	4.00	193	197	3.81	49.2	53.0	2,765	306,704	309,468	292	23.8	2,459	326,316
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	149	138	181	786	2.56	2.77	193	195	2.62	49.2	51.8	—	265,107	265,107	11.8	21.7	23.5	271,887
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553

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Stationa	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	206	195	200	803	2.60	3.84	193	196	3.69	49.2	52.9	2,765	294,359	297,124	293	24.1	1,576	313,201
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	123	114	157	674	2.18	2.38	160	163	2.25	41.0	43.3	—	226,235	226,235	9.91	18.8	331	232,418
Area	61.8	61.0	0.54	64.5	< 0.005	0.11	—	0.11	0.09	—	0.09	—	265	265	0.01	< 0.005	—	266
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationa ry	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415
Total	186	176	162	743	2.20	2.81	160	163	2.66	41.0	43.7	2,765	253,144	255,909	291	21.2	1,883	271,382
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.4	20.8	28.6	123	0.40	0.43	29.3	29.7	0.41	7.48	7.89	—	37,456	37,456	1.64	3.11	54.8	38,480
Area	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,840	3,840	0.36	0.04	—	3,860
Water	—	—	—	—	—	—	—	—	—	—	—	143	503	646	14.7	0.35	—	1,119
Waste	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationa ry	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	33.9	32.1	29.6	136	0.40	0.51	29.3	29.8	0.48	7.48	7.97	458	41,911	42,369	48.2	3.51	312	44,930

2.6. Operations Emissions by Sector, Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Mobile	159	148	171	893	2.68	2.76	193	195	2.62	49.2	51.8	—	277,064	277,064	11.2	21.3	907	284,613
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	21,032	21,032	1.98	0.21	—	21,145
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	216	205	190	910	2.72	3.83	193	196	3.69	49.2	52.9	1,487	303,332	304,819	164	23.1	2,459	318,266
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	149	138	181	786	2.56	2.77	193	195	2.62	49.2	51.8	—	265,107	265,107	11.8	21.7	23.5	271,887
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	20,975	20,975	1.98	0.21	—	21,087
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	206	195	200	803	2.60	3.84	193	196	3.69	49.2	52.9	1,487	291,317	292,804	164	23.5	1,576	305,482
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	123	114	157	674	2.18	2.38	160	163	2.25	41.0	43.3	—	226,235	226,235	9.91	18.8	331	232,418
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	21,014	21,014	1.98	0.21	—	21,127
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415

Total	174	165	162	678	2.20	2.70	160	163	2.57	41.0	43.6	1,487	249,876	251,363	162	20.6	1,883	263,436
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.4	20.8	28.6	123	0.40	0.43	29.3	29.7	0.41	7.48	7.89	—	37,456	37,456	1.64	3.11	54.8	38,480
Area	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,479	3,479	0.33	0.04	—	3,498
Water	—	—	—	—	—	—	—	—	—	—	—	104	366	470	10.7	0.26	—	814
Waste	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	31.8	30.1	29.5	124	0.40	0.49	29.3	29.8	0.47	7.48	7.95	246	41,370	41,616	26.9	3.41	312	43,615

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	2.69	1.52	65.2	17.7	0.63	1.13	21.7	22.9	1.09	5.82	6.90	—	67,395	67,395	1.01	9.99	201	70,600
Industrial Park	0.54	0.30	13.1	3.57	0.13	0.23	4.37	4.60	0.22	1.17	1.39	—	13,569	13,569	0.20	2.01	40.5	14,215

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Medical Office Building	0.81	0.76	0.57	5.12	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,231	1,231	0.06	0.06	4.23	1,253
Supermarket	52.9	49.7	34.3	306	0.70	0.53	60.0	60.5	0.50	15.2	15.7	—	71,481	71,481	3.48	3.48	245	72,848
Regional Shopping Center	36.2	33.8	25.3	229	0.54	0.40	46.4	46.8	0.38	11.8	12.1	—	54,980	54,980	2.50	2.59	189	56,003
High Turnover (Sit Down Restaurant)	15.4	14.4	9.78	87.0	0.20	0.15	16.9	17.1	0.14	4.30	4.44	—	20,189	20,189	1.00	0.99	69.0	20,578
Fast Food Restaurant with Drive Thru	28.1	26.9	13.1	109	0.21	0.17	17.1	17.3	0.16	4.35	4.51	—	21,157	21,157	1.53	1.27	69.9	21,643
Gasoline/Service Station	7.85	7.54	3.49	28.8	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,389	5,389	0.42	0.34	17.7	5,518
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	14.3	13.4	5.70	108	0.21	0.10	20.7	20.8	0.09	5.22	5.32	—	21,673	21,673	0.98	0.63	70.3	21,954
Total	159	148	171	893	2.68	2.76	193	195	2.62	49.2	51.8	—	277,064	277,064	11.2	21.3	907	284,613
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Unrefrig erated	2.65	1.49	68.1	17.7	0.63	1.14	21.7	22.9	1.09	5.82	6.90	—	67,405	67,405	1.01	10.0	5.23	70,416
Industria l Park	0.53	0.30	13.7	3.57	0.13	0.23	4.37	4.60	0.22	1.17	1.39	—	13,572	13,572	0.20	2.01	1.05	14,178
Medical Office Building	0.76	0.70	0.61	4.41	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,157	1,157	0.06	0.06	0.11	1,176
Superm arket	49.4	46.2	36.7	267	0.66	0.53	60.0	60.5	0.50	15.2	15.7	—	67,222	67,222	3.69	3.59	6.35	68,390
Regiona l Shoppin g Center	33.9	31.5	27.1	197	0.50	0.40	46.4	46.8	0.38	11.8	12.1	—	51,685	51,685	2.63	2.67	4.90	52,552
High Turnover (Sit Down Restaurant)	14.3	13.4	10.5	76.1	0.19	0.15	16.9	17.1	0.14	4.30	4.44	—	18,988	18,988	1.06	1.02	1.79	19,321
Fast Food Restaurant with Drive Thru	26.1	24.9	13.9	101	0.19	0.17	17.1	17.3	0.16	4.35	4.51	—	19,949	19,949	1.66	1.31	1.81	20,383
Gasolin e/Service Station	7.30	6.97	3.72	27.1	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,085	5,085	0.45	0.35	0.46	5,200
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	13.7	12.8	6.27	92.2	0.20	0.10	20.7	20.8	0.09	5.22	5.32	—	20,044	20,044	1.05	0.67	1.82	20,270

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Total	149	138	181	786	2.56	2.77	193	195	2.62	49.2	51.8	—	265,107	265,107	11.8	21.7	23.5	271,887
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	0.43	0.24	11.1	2.86	0.10	0.18	3.50	3.68	0.18	0.94	1.11	—	9,881	9,881	0.15	1.47	12.8	10,335
Industria l Park	0.09	0.05	2.39	0.61	0.02	0.04	0.75	0.79	0.04	0.20	0.24	—	2,123	2,123	0.03	0.32	2.73	2,220
Medical Office Building	0.11	0.10	0.09	0.64	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	150	150	0.01	0.01	0.23	152
Superm arket	7.51	7.01	5.71	42.2	0.10	0.08	9.14	9.22	0.08	2.32	2.40	—	9,429	9,429	0.51	0.50	14.7	9,607
Regiona l Shoppin g Center	4.71	4.37	3.86	28.6	0.07	0.06	6.46	6.52	0.05	1.64	1.69	—	6,635	6,635	0.34	0.34	10.4	6,756
High Turnover (Sit Down Restaurant)	2.20	2.05	1.64	12.1	0.03	0.02	2.60	2.62	0.02	0.66	0.68	—	2,685	2,685	0.15	0.14	4.18	2,736
Fast Food Restaurant with Drive Thru	3.87	3.68	2.11	15.6	0.03	0.03	2.55	2.58	0.02	0.65	0.67	—	2,732	2,732	0.23	0.18	4.10	2,795
Gasolin e/Service Station	1.25	1.19	0.65	4.80	0.01	0.01	0.75	0.75	0.01	0.19	0.20	—	805	805	0.07	0.05	1.20	824
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	2.22	2.07	1.05	15.7	0.03	0.02	3.37	3.39	0.01	0.85	0.87	—	3,016	3,016	0.16	0.10	4.51	3,054
Total	22.4	20.8	28.6	123	0.40	0.43	29.3	29.7	0.41	7.48	7.89	—	37,456	37,456	1.64	3.11	54.8	38,480

4.1.2. Mitigated

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	2.69	1.52	65.2	17.7	0.63	1.13	21.7	22.9	1.09	5.82	6.90	—	67,395	67,395	1.01	9.99	201	70,600
Industrial Park	0.54	0.30	13.1	3.57	0.13	0.23	4.37	4.60	0.22	1.17	1.39	—	13,569	13,569	0.20	2.01	40.5	14,215
Medical Office Building	0.81	0.76	0.57	5.12	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,231	1,231	0.06	0.06	4.23	1,253
Supermarket	52.9	49.7	34.3	306	0.70	0.53	60.0	60.5	0.50	15.2	15.7	—	71,481	71,481	3.48	3.48	245	72,848
Regional Shopping Center	36.2	33.8	25.3	229	0.54	0.40	46.4	46.8	0.38	11.8	12.1	—	54,980	54,980	2.50	2.59	189	56,003

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High Turnover (Sit Down Restaurant)	15.4	14.4	9.78	87.0	0.20	0.15	16.9	17.1	0.14	4.30	4.44	—	20,189	20,189	1.00	0.99	69.0	20,578
Fast Food Restaurant with Drive Thru	28.1	26.9	13.1	109	0.21	0.17	17.1	17.3	0.16	4.35	4.51	—	21,157	21,157	1.53	1.27	69.9	21,643
Gasoline/Service Station	7.85	7.54	3.49	28.8	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,389	5,389	0.42	0.34	17.7	5,518
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	14.3	13.4	5.70	108	0.21	0.10	20.7	20.8	0.09	5.22	5.32	—	21,673	21,673	0.98	0.63	70.3	21,954
Total	159	148	171	893	2.68	2.76	193	195	2.62	49.2	51.8	—	277,064	277,064	11.2	21.3	907	284,613
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.65	1.49	68.1	17.7	0.63	1.14	21.7	22.9	1.09	5.82	6.90	—	67,405	67,405	1.01	10.0	5.23	70,416
Industrial Park	0.53	0.30	13.7	3.57	0.13	0.23	4.37	4.60	0.22	1.17	1.39	—	13,572	13,572	0.20	2.01	1.05	14,178
Medical Office Building	0.76	0.70	0.61	4.41	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,157	1,157	0.06	0.06	0.11	1,176

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Superm	49.4	46.2	36.7	267	0.66	0.53	60.0	60.5	0.50	15.2	15.7	—	67,222	67,222	3.69	3.59	6.35	68,390
Regiona l Shoppin g Center	33.9	31.5	27.1	197	0.50	0.40	46.4	46.8	0.38	11.8	12.1	—	51,685	51,685	2.63	2.67	4.90	52,552
High Turnover (Sit Down Restaurant)	14.3	13.4	10.5	76.1	0.19	0.15	16.9	17.1	0.14	4.30	4.44	—	18,988	18,988	1.06	1.02	1.79	19,321
Fast Food Restaurant with Drive Thru	26.1	24.9	13.9	101	0.19	0.17	17.1	17.3	0.16	4.35	4.51	—	19,949	19,949	1.66	1.31	1.81	20,383
Gasolin e/Service Station	7.30	6.97	3.72	27.1	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,085	5,085	0.45	0.35	0.46	5,200
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	13.7	12.8	6.27	92.2	0.20	0.10	20.7	20.8	0.09	5.22	5.32	—	20,044	20,044	1.05	0.67	1.82	20,270
Total	149	138	181	786	2.56	2.77	193	195	2.62	49.2	51.8	—	265,107	265,107	11.8	21.7	23.5	271,887
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	0.43	0.24	11.1	2.86	0.10	0.18	3.50	3.68	0.18	0.94	1.11	—	9,881	9,881	0.15	1.47	12.8	10,335

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Industrial Park	0.09	0.05	2.39	0.61	0.02	0.04	0.75	0.79	0.04	0.20	0.24	—	2,123	2,123	0.03	0.32	2.73	2,220
Medical Office Building	0.11	0.10	0.09	0.64	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	150	150	0.01	0.01	0.23	152
Supermarket	7.51	7.01	5.71	42.2	0.10	0.08	9.14	9.22	0.08	2.32	2.40	—	9,429	9,429	0.51	0.50	14.7	9,607
Regional Shopping Center	4.71	4.37	3.86	28.6	0.07	0.06	6.46	6.52	0.05	1.64	1.69	—	6,635	6,635	0.34	0.34	10.4	6,756
High Turnover (Sit Down Restaurant)	2.20	2.05	1.64	12.1	0.03	0.02	2.60	2.62	0.02	0.66	0.68	—	2,685	2,685	0.15	0.14	4.18	2,736
Fast Food Restaurant with Drive Thru	3.87	3.68	2.11	15.6	0.03	0.03	2.55	2.58	0.02	0.65	0.67	—	2,732	2,732	0.23	0.18	4.10	2,795
Gasoline/Service Station	1.25	1.19	0.65	4.80	0.01	0.01	0.75	0.75	0.01	0.19	0.20	—	805	805	0.07	0.05	1.20	824
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	2.22	2.07	1.05	15.7	0.03	0.02	3.37	3.39	0.01	0.85	0.87	—	3,016	3,016	0.16	0.10	4.51	3,054
Total	22.4	20.8	28.6	123	0.40	0.43	29.3	29.7	0.41	7.48	7.89	—	37,456	37,456	1.64	3.11	54.8	38,480

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	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,284	3,284	0.31	0.04	—	3,303
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.0	91.0	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	5,790	5,790	0.55	0.07	—	5,824
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,757	1,757	0.17	0.02	—	1,767
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	1,001	1,001	0.10	0.01	—	1,007

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Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	426	426	0.04	< 0.005	—	429
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
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	—	—	—	—	—	—	—	—	—	—	—	—	20,052	20,052	1.91	0.23	—	20,169
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,284	3,284	0.31	0.04	—	3,303
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.0	91.0	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	5,790	5,790	0.55	0.07	—	5,824

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	—	1,757	1,757	0.17	0.02	—	1,767
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	1,001	1,001	0.10	0.01	—	1,007
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	426	426	0.04	< 0.005	—	429
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
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	—	—	—	—	—	—	—	—	—	—	—	—	20,052	20,052	1.91	0.23	—	20,169
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,105	1,105	0.11	0.01	—	1,112
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	544	544	0.05	0.01	—	547

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	< 0.005	< 0.005	—	15.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	959	959	0.09	0.01	—	964
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	291	291	0.03	< 0.005	—	293
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	70.6	70.6	0.01	< 0.005	—	71.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	156
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	—	—	—	—	—	—	—	—	—	—	—	—	3,320	3,320	0.32	0.04	—	3,339

4.2.2. Electricity Emissions By Land Use - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	6,715	6,715	0.64	0.08	—	6,755
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,288	3,288	0.31	0.04	—	3,307
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	3,827	3,827	0.36	0.04	—	3,849
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,739	1,739	0.17	0.02	—	1,749
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	846	846	0.08	0.01	—	851
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	360	360	0.03	< 0.005	—	362
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.3

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Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
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	—	—	—	—	—	—	—	—	—	—	—	—	17,892	17,892	1.71	0.21	—	17,997
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,282	3,282	0.31	0.04	—	3,302
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	90.9	90.9	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	3,821	3,821	0.36	0.04	—	3,844
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,734	1,734	0.17	0.02	—	1,744
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	845	845	0.08	0.01	—	850

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	360	360	0.03	< 0.005	—	362
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.5	92.5	0.01	< 0.005	—	93.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
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	—	—	—	—	—	—	—	—	—	—	—	—	17,835	17,835	1.70	0.21	—	17,939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,110	1,110	0.11	0.01	—	1,116
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	544	544	0.05	0.01	—	547
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	< 0.005	< 0.005	—	15.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	633	633	0.06	0.01	—	637
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	288	288	0.03	< 0.005	—	289

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.01	< 0.005	—	141
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	59.6	59.6	0.01	< 0.005	—	60.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	156
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	—	—	—	—	—	—	—	—	—	—	—	—	2,959	2,959	0.28	0.03	—	2,977

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

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Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149

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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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

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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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7

Gasoline/Service	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027

Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
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

Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig 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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7
Gasoline/Service Station	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521
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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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.8	15.5	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Total	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.09	1.93	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Total	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1

4.3.2. Mitigated

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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	678	2,368	3,046	69.7	1.68	—	5,289

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	310	398	9.05	0.22	—	689
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	4.80	6.13	0.14	< 0.005	—	10.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	164	208	4.62	0.11	—	357
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	103	130	2.77	0.07	—	219
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	60.8	78.3	1.80	0.04	—	136
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	25.9	33.3	0.77	0.02	—	58.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.68	1.98	0.03	< 0.005	—	3.00
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	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	678	2,368	3,046	69.7	1.68	—	5,289
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	310	398	9.05	0.22	—	689
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	4.80	6.13	0.14	< 0.005	—	10.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	164	208	4.62	0.11	—	357
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	103	130	2.77	0.07	—	219
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	60.8	78.3	1.80	0.04	—	136
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	25.9	33.3	0.77	0.02	—	58.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.68	1.98	0.03	< 0.005	—	3.00
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	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	112	392	504	11.5	0.28	—	876
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	14.6	51.3	65.9	1.50	0.04	—	114
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.22	0.80	1.01	0.02	< 0.005	—	1.74
Superm arket	—	—	—	—	—	—	—	—	—	—	—	7.44	27.1	34.5	0.77	0.02	—	59.2
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	4.46	17.0	21.5	0.46	0.01	—	36.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.89	10.1	13.0	0.30	0.01	—	22.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.23	4.29	5.52	0.13	< 0.005	—	9.60

Gasoline/Service	—	—	—	—	—	—	—	—	—	—	—	0.05	0.28	0.33	0.01	< 0.005	—	0.50
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	—	—	—	—	—	—	—	—	—	—	—	143	503	646	14.7	0.35	—	1,119

4.4.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	491	1,722	2,213	50.5	1.22	—	3,838
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	226	289	6.56	0.16	—	500
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	3.51	4.46	0.10	< 0.005	—	7.64
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	123	156	3.45	0.08	—	267

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	75.5	95.0	2.01	0.05	—	160
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	44.1	56.7	1.30	0.03	—	98.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	18.8	24.1	0.55	0.01	—	41.9
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	1.26	1.49	0.02	< 0.005	—	2.22
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	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,722	2,213	50.5	1.22	—	3,838

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	226	289	6.56	0.16	—	500
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	3.51	4.46	0.10	< 0.005	—	7.64
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	123	156	3.45	0.08	—	267
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	75.5	95.0	2.01	0.05	—	160
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	44.1	56.7	1.30	0.03	—	98.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	18.8	24.1	0.55	0.01	—	41.9
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	1.26	1.49	0.02	< 0.005	—	2.22
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	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.3	285	366	8.36	0.20	—	635
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10.5	37.3	47.9	1.09	0.03	—	82.8
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.16	0.58	0.74	0.02	< 0.005	—	1.26
Supermarket	—	—	—	—	—	—	—	—	—	—	—	5.55	20.3	25.8	0.57	0.01	—	44.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.24	12.5	15.7	0.33	0.01	—	26.5
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.09	7.30	9.39	0.22	0.01	—	16.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.89	3.11	4.00	0.09	< 0.005	—	6.95
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.04	0.21	0.25	< 0.005	< 0.005	—	0.37
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	—	—	—	—	—	—	—	—	—	—	—	104	366	470	10.7	0.26	—	814
-------	---	---	---	---	---	---	---	---	---	---	---	-----	-----	-----	------	------	---	-----

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	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	449
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	76.8

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	5.30	0.00	5.30	0.53	0.00	—	18.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	95.8	0.00	95.8	9.57	0.00	—	335
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	17.8	0.00	17.8	1.78	0.00	—	62.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	13.2	0.00	13.2	1.31	0.00	—	46.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.02
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	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101

4.5.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10

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	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10
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	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.3	0.00	51.3	5.13	0.00	—	179
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.78	0.00	8.78	0.88	0.00	—	30.7
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	2.65	0.00	2.65	0.26	0.00	—	9.27
Supermarket	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	8.89	0.00	8.89	0.89	0.00	—	31.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.59	0.00	—	55.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.58	0.00	6.58	0.66	0.00	—	23.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.29	0.00	0.29	0.03	0.00	—	1.01
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	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.6.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emerg ency Generat or	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.8.2. Mitigated

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	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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	267	127	119	82,384	14,703	6,986	6,586	4,540,994
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	10,238	8,215	8,109	3,520,340
Industrial Park	90.9	73.8	72.8	31,351	5,017	4,075	4,020	1,729,961
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212
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5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	267	127	119	82,384	14,703	6,986	6,586	4,540,994
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	10,238	8,215	8,109	3,520,340
Industrial Park	90.9	73.8	72.8	31,351	5,017	4,075	4,020	1,729,961
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	3,249,471	1,083,157	485,764

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
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Unrefrigerated Warehouse-No Rail	5,555,038	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	346	0.0330	0.0040	0.00
Industrial Park	3,462,470	346	0.0330	0.0040	0.00
Medical Office Building	95,937	346	0.0330	0.0040	151,727
Supermarket	5,358,917	346	0.0330	0.0040	2,803,892
Regional Shopping Center	1,852,582	346	0.0330	0.0040	1,124,295
Supermarket	746,046	346	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	313,717	346	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	741,697	346	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	386,264	346	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	63,207	346	0.0330	0.0040	205,306
Gasoline/Service Station	97,872	346	0.0330	0.0040	439,296
Parking Lot	984,872	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

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	5,555,038	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	346	0.0330	0.0040	0.00
Industrial Park	3,460,731	346	0.0330	0.0040	0.00
Medical Office Building	95,889	346	0.0330	0.0040	151,727

Supermarket	3,536,697	346	0.0330	0.0040	2,803,892
Regional Shopping Center	1,827,696	346	0.0330	0.0040	1,124,295
Supermarket	492,364	346	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	264,822	346	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	626,100	346	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	326,063	346	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	53,356	346	0.0330	0.0040	205,306
Gasoline/Service Station	97,555	346	0.0330	0.0040	439,296
Parking Lot	984,872	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	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	279,118,750	8,300,940
Unrefrigerated Warehouse-No Rail	74,480,769	8,644,867
Industrial Park	45,903,125	2,700,672
Medical Office Building	690,143	69,115
Supermarket	20,591,955	2,099,106
Regional Shopping Center	14,062,298	2,385,555
Supermarket	2,866,726	292,237
High Turnover (Sit Down Restaurant)	2,711,770	112,258
High Turnover (Sit Down Restaurant)	6,411,239	265,409
Fast Food Restaurant with Drive Thru	3,338,871	138,230

Fast Food Restaurant with Drive Thru	546,361	22,626
Gasoline/Service Station	159,383	128,526
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	202,193,623	6,640,752
Unrefrigerated Warehouse-No Rail	53,953,869	6,915,893
Industrial Park	33,252,224	2,160,537
Medical Office Building	499,940	55,292
Supermarket	15,348,420	1,679,285
Regional Shopping Center	10,203,603	1,908,444
Supermarket	2,136,743	233,789
High Turnover (Sit Down Restaurant)	1,958,983	89,807
High Turnover (Sit Down Restaurant)	4,631,479	212,327
Fast Food Restaurant with Drive Thru	2,412,000	110,584
Fast Food Restaurant with Drive Thru	394,691	18,101
Gasoline/Service Station	115,648	102,821
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
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Unrefrigerated Warehouse-No Rail	1,135	—
Unrefrigerated Warehouse-No Rail	303	—
Industrial Park	246	—
Medical Office Building	59.4	—
Supermarket	942	—
Regional Shopping Center	199	—
Supermarket	131	—
High Turnover (Sit Down Restaurant)	106	—
High Turnover (Sit Down Restaurant)	251	—
Fast Food Restaurant with Drive Thru	127	—
Fast Food Restaurant with Drive Thru	20.7	—
Gasoline/Service Station	6.47	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	454	—
Unrefrigerated Warehouse-No Rail	121	—
Industrial Park	98.5	—
Medical Office Building	29.7	—
Supermarket	471	—
Regional Shopping Center	99.7	—
Supermarket	65.6	—
High Turnover (Sit Down Restaurant)	53.2	—
High Turnover (Sit Down Restaurant)	126	—
Fast Food Restaurant with Drive Thru	63.4	—

Fast Food Restaurant with Drive Thru	10.4	—
Gasoline/Service Station	3.23	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.15.2. Mitigated

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

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	7.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	5.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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 $\frac{3}{4}$ 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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—

Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4

English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted Schedule compressed based on Opening Year of 2026 and Demolition, Site prep, Grading and Building construction dates adjusted based on ratio of default schedule. Paving and architectural coating work days are based on defaults
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per Streetlight Data available in the VMT assessment
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: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural gas will not be utilized for the industrial Portion of the project. Commercial Portion will utilize Natural Gas
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater

ATTACHMENT E
CALEEMOD PHASE 2 ALTERNATIVE OPERATIONAL EMISSIONS
MODEL OUTPUTS – SCENARIO B

15605 - Harvest Landing (Phase 2 Alternative) Adjusted TL Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15605 - Harvest Landing (Phase 2 Alternative) Adjusted TL
Operational Year	2030
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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
Industrial Park	1,676	1000sqft	38.5	1,676,298	0.00	—	—	Truck
Single Family Housing	110	Dwelling Unit	35.7	214,500	1,288,414	—	355	Low Residential

Apartments Low Rise	160	Dwelling Unit	10.0	169,600	0.00	—	517	Medium Residential
Apartments Mid Rise	345	Dwelling Unit	9.08	331,200	0.00	—	1,114	High Residential
City Park	16.5	Acre	16.5	0.00	0.00	0.00	—	Sport Park
Other Asphalt Surfaces	5.50	Acre	5.50	0.00	0.00	—	—	—
User Defined Industrial	1,676	User Defined Unit	0.00	0.00	0.00	—	—	PC

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.	113	107	162	363	1.81	4.67	93.4	98.1	4.52	24.3	28.8	2,167	224,703	226,871	227	23.4	566	240,070
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	95.8	90.3	168	226	1.77	4.52	93.4	97.9	4.41	24.3	28.7	2,167	221,035	223,202	227	23.5	172	236,034
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	95.6	90.8	127	264	1.49	2.68	82.2	84.9	2.55	21.4	23.9	2,167	185,646	187,813	226	20.8	315	199,987
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.4	16.6	23.2	48.2	0.27	0.49	15.0	15.5	0.47	3.90	4.37	359	30,736	31,095	37.4	3.45	52.2	33,110

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	33.6	29.5	129	232	1.69	2.46	93.4	95.8	2.35	24.3	26.6	—	178,381	178,381	4.00	21.0	404	185,141
Area	71.9	70.2	11.1	112	0.07	0.97	—	0.97	0.93	—	0.93	0.00	13,342	13,342	0.26	0.03	—	13,357
Energy	0.33	0.16	2.80	1.19	0.02	0.23	—	0.23	0.23	—	0.23	—	27,353	27,353	3.33	0.37	—	27,547
Water	—	—	—	—	—	—	—	—	—	—	—	791	2,102	2,892	81.3	1.96	—	5,510
Waste	—	—	—	—	—	—	—	—	—	—	—	1,376	0.00	1,376	138	0.00	—	4,816
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161
Stationary	7.57	6.89	19.3	17.6	0.03	1.01	0.00	1.01	1.01	0.00	1.01	0.00	3,526	3,526	0.14	0.03	0.00	3,538
Total	113	107	162	363	1.81	4.67	93.4	98.1	4.52	24.3	28.8	2,167	224,703	226,871	227	23.4	566	240,070
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	32.2	28.1	135	203	1.66	2.46	93.4	95.8	2.35	24.3	26.6	—	175,105	175,105	4.11	21.1	10.5	181,500
Area	55.8	55.2	10.2	4.34	0.07	0.82	—	0.82	0.82	—	0.82	0.00	12,949	12,949	0.24	0.02	—	12,963
Energy	0.33	0.16	2.80	1.19	0.02	0.23	—	0.23	0.23	—	0.23	—	27,353	27,353	3.33	0.37	—	27,547
Water	—	—	—	—	—	—	—	—	—	—	—	791	2,102	2,892	81.3	1.96	—	5,510
Waste	—	—	—	—	—	—	—	—	—	—	—	1,376	0.00	1,376	138	0.00	—	4,816
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161
Stationary	7.57	6.89	19.3	17.6	0.03	1.01	0.00	1.01	1.01	0.00	1.01	0.00	3,526	3,526	0.14	0.03	0.00	3,538
Total	95.8	90.3	168	226	1.77	4.52	93.4	97.9	4.41	24.3	28.7	2,167	221,035	223,202	227	23.5	172	236,034
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	28.5	24.8	120	186	1.46	2.16	82.2	84.4	2.06	21.4	23.4	—	154,552	154,552	3.64	18.5	154	160,310

Area	65.7	64.9	1.34	74.2	0.01	0.16	—	0.16	0.13	—	0.13	0.00	1,156	1,156	0.03	< 0.005	—	1,158
Energy	0.33	0.16	2.80	1.19	0.02	0.23	—	0.23	0.23	—	0.23	—	27,353	27,353	3.33	0.37	—	27,547
Water	—	—	—	—	—	—	—	—	—	—	—	791	2,102	2,892	81.3	1.96	—	5,510
Waste	—	—	—	—	—	—	—	—	—	—	—	1,376	0.00	1,376	138	0.00	—	4,816
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161
Stationary	1.04	0.94	2.64	2.41	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	483	483	0.02	< 0.005	0.00	485
Total	95.6	90.8	127	264	1.49	2.68	82.2	84.9	2.55	21.4	23.9	2,167	185,646	187,813	226	20.8	315	199,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.20	4.53	22.0	34.0	0.27	0.39	15.0	15.4	0.38	3.90	4.28	—	25,588	25,588	0.60	3.06	25.5	26,541
Area	12.0	11.8	0.24	13.5	< 0.005	0.03	—	0.03	0.02	—	0.02	0.00	191	191	< 0.005	< 0.005	—	192
Energy	0.06	0.03	0.51	0.22	< 0.005	0.04	—	0.04	0.04	—	0.04	—	4,529	4,529	0.55	0.06	—	4,561
Water	—	—	—	—	—	—	—	—	—	—	—	131	348	479	13.5	0.32	—	912
Waste	—	—	—	—	—	—	—	—	—	—	—	228	0.00	228	22.8	0.00	—	797
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.7	26.7
Stationary	0.19	0.17	0.48	0.44	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	80.0	80.0	< 0.005	< 0.005	0.00	80.2
Total	17.4	16.6	23.2	48.2	0.27	0.49	15.0	15.5	0.47	3.90	4.37	359	30,736	31,095	37.4	3.45	52.2	33,110

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Industrial Park	4.77	2.52	114	30.7	1.21	2.20	45.8	48.0	2.11	12.3	14.4	—	129,251	129,251	2.00	19.2	296	135,319
Single Family Housing	3.50	3.26	2.38	22.9	0.06	0.04	5.58	5.62	0.04	1.42	1.45	—	6,116	6,116	0.25	0.28	14.1	6,220
Apartments Low Rise	3.62	3.37	2.46	23.7	0.06	0.04	5.77	5.81	0.04	1.46	1.50	—	6,325	6,325	0.26	0.29	14.6	6,432
Apartments Mid Rise	5.29	4.92	3.59	34.6	0.09	0.06	8.44	8.50	0.06	2.14	2.20	—	9,248	9,248	0.38	0.42	21.4	9,404
City Park	2.30	2.14	1.55	14.9	0.04	0.03	3.61	3.63	0.02	0.92	0.94	—	3,955	3,955	0.17	0.18	9.14	4,022
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	14.2	13.3	5.16	105	0.23	0.09	24.2	24.3	0.08	6.10	6.18	—	23,485	23,485	0.93	0.63	49.3	23,746
Total	33.6	29.5	129	232	1.69	2.46	93.4	95.8	2.35	24.3	26.6	—	178,381	178,381	4.00	21.0	404	185,141
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	4.70	2.46	119	30.8	1.21	2.20	45.8	48.0	2.11	12.3	14.4	—	129,274	129,274	2.00	19.2	7.67	135,056
Single Family Housing	3.31	3.06	2.54	19.7	0.06	0.04	5.58	5.62	0.04	1.42	1.45	—	5,749	5,749	0.27	0.29	0.37	5,841
Apartments Low Rise	3.42	3.17	2.63	20.4	0.06	0.04	5.77	5.81	0.04	1.46	1.50	—	5,945	5,945	0.28	0.30	0.38	6,041
Apartments Mid Rise	5.00	4.63	3.84	29.8	0.08	0.06	8.44	8.50	0.06	2.14	2.20	—	8,692	8,692	0.40	0.43	0.55	8,831
City Park	2.18	2.02	1.65	12.8	0.04	0.03	3.61	3.63	0.02	0.92	0.94	—	3,717	3,717	0.17	0.19	0.24	3,777

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	13.6	12.7	5.67	89.7	0.21	0.09	24.2	24.3	0.08	6.10	6.18	—	21,728	21,728	0.99	0.67	1.28	21,953
Total	32.2	28.1	135	203	1.66	2.46	93.4	95.8	2.35	24.3	26.6	—	175,105	175,105	4.11	21.1	10.5	181,500
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.75	0.40	19.2	4.89	0.19	0.35	7.28	7.63	0.34	1.95	2.28	—	18,714	18,714	0.29	2.78	18.5	19,569
Single Family Housing	0.59	0.54	0.46	3.64	0.01	0.01	0.99	1.00	0.01	0.25	0.26	—	942	942	0.04	0.05	0.99	959
Apartments Low Rise	0.55	0.51	0.43	3.43	0.01	0.01	0.93	0.94	0.01	0.24	0.24	—	887	887	0.04	0.04	0.93	902
Apartments Mid Rise	0.88	0.81	0.69	5.45	0.02	0.01	1.49	1.50	0.01	0.38	0.39	—	1,409	1,409	0.06	0.07	1.48	1,433
City Park	0.29	0.27	0.22	1.76	< 0.005	< 0.005	0.48	0.48	< 0.005	0.12	0.12	—	452	452	0.02	0.02	0.48	460
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	2.14	2.01	0.93	14.8	0.03	0.01	3.84	3.85	0.01	0.97	0.98	—	3,183	3,183	0.14	0.10	3.08	3,219
Total	5.20	4.53	22.0	34.0	0.27	0.39	15.0	15.4	0.38	3.90	4.28	—	25,588	25,588	0.60	3.06	25.5	26,541

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	20,892	20,892	2.64	0.32	—	21,053
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	734	734	0.09	0.01	—	740
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	783	783	0.10	0.01	—	789
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,395	1,395	0.18	0.02	—	1,406
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	—	23,803	23,803	3.01	0.37	—	23,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	20,892	20,892	2.64	0.32	—	21,053
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	734	734	0.09	0.01	—	740

Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	783	783	0.10	0.01	—	789
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,395	1,395	0.18	0.02	—	1,406
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	—	23,803	23,803	3.01	0.37	—	23,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	3,459	3,459	0.44	0.05	—	3,486
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	122	122	0.02	< 0.005	—	122
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	130	130	0.02	< 0.005	—	131
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	231	231	0.03	< 0.005	—	233
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	—	3,941	3,941	0.50	0.06	—	3,971

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.12	0.06	0.99	0.42	0.01	0.08	—	0.08	0.08	—	0.08	—	1,254	1,254	0.11	< 0.005	—	1,257
Apartments Low Rise	0.08	0.04	0.69	0.29	< 0.005	0.06	—	0.06	0.06	—	0.06	—	870	870	0.08	< 0.005	—	873
Apartments Mid Rise	0.13	0.07	1.12	0.48	0.01	0.09	—	0.09	0.09	—	0.09	—	1,426	1,426	0.13	< 0.005	—	1,429
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.33	0.16	2.80	1.19	0.02	0.23	—	0.23	0.23	—	0.23	—	3,549	3,549	0.31	0.01	—	3,559
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

15605 - Harvest Landing (Phase 2 Alternative) Adjusted TL Detailed Report, 1/15/2025

Single Family Housing	0.12	0.06	0.99	0.42	0.01	0.08	—	0.08	0.08	—	0.08	—	1,254	1,254	0.11	< 0.005	—	1,257
Apartments Low Rise	0.08	0.04	0.69	0.29	< 0.005	0.06	—	0.06	0.06	—	0.06	—	870	870	0.08	< 0.005	—	873
Apartments Mid Rise	0.13	0.07	1.12	0.48	0.01	0.09	—	0.09	0.09	—	0.09	—	1,426	1,426	0.13	< 0.005	—	1,429
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.33	0.16	2.80	1.19	0.02	0.23	—	0.23	0.23	—	0.23	—	3,549	3,549	0.31	0.01	—	3,559
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.02	0.01	0.18	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	208	208	0.02	< 0.005	—	208
Apartments Low Rise	0.01	0.01	0.13	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	144	144	0.01	< 0.005	—	144
Apartments Mid Rise	0.02	0.01	0.20	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	—	236	236	0.02	< 0.005	—	237
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.06	0.03	0.51	0.22	< 0.005	0.04	—	0.04	0.04	—	0.04	—	588	588	0.05	< 0.005	—	589

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.19	0.60	10.2	4.34	0.07	0.82	—	0.82	0.82	—	0.82	0.00	12,949	12,949	0.24	0.02	—	12,963
Consumer Products	51.2	51.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.2	15.0	0.94	108	0.01	0.15	—	0.15	0.11	—	0.11	—	393	393	0.02	< 0.005	—	394
Total	71.9	70.2	11.1	112	0.07	0.97	—	0.97	0.93	—	0.93	0.00	13,342	13,342	0.26	0.03	—	13,357
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.19	0.60	10.2	4.34	0.07	0.82	—	0.82	0.82	—	0.82	0.00	12,949	12,949	0.24	0.02	—	12,963
Consumer Products	51.2	51.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	55.8	55.2	10.2	4.34	0.07	0.82	—	0.82	0.82	—	0.82	0.00	12,949	12,949	0.24	0.02	—	12,963
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	0.01	0.13	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	147	147	< 0.005	< 0.005	—	147
Consumer Products	9.34	9.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.62	0.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.02	1.87	0.12	13.5	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.6	44.6	< 0.005	< 0.005	—	44.7
Total	12.0	11.8	0.24	13.5	< 0.005	0.03	—	0.03	0.02	—	0.02	0.00	191	191	< 0.005	< 0.005	—	192

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	743	1,885	2,628	76.4	1.84	—	5,086
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.57	116	125	0.89	0.02	—	154

Apartme nts	—	—	—	—	—	—	—	—	—	—	—	12.5	31.7	44.1	1.28	0.03	—	85.4
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	26.9	68.3	95.1	2.77	0.07	—	184
City Park	—	—	—	—	—	—	—	—	—	—	—	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	—	—	—	—	—	—	—	—	—	—	—	791	2,102	2,892	81.3	1.96	—	5,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	743	1,885	2,628	76.4	1.84	—	5,086
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.57	116	125	0.89	0.02	—	154
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	12.5	31.7	44.1	1.28	0.03	—	85.4
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	26.9	68.3	95.1	2.77	0.07	—	184
City Park	—	—	—	—	—	—	—	—	—	—	—	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	—	—	—	—	—	—	—	—	—	—	—	791	2,102	2,892	81.3	1.96	—	5,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	123	312	435	12.6	0.30	—	842
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.42	19.3	20.7	0.15	< 0.005	—	25.5
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.06	5.24	7.31	0.21	0.01	—	14.1
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4.45	11.3	15.8	0.46	0.01	—	30.5
City Park	—	—	—	—	—	—	—	—	—	—	—	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	—	—	—	—	—	—	—	—	—	—	—	131	348	479	13.5	0.32	—	912

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,120	0.00	1,120	112	0.00	—	3,919
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	63.8	0.00	63.8	6.38	0.00	—	223
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	137	0.00	137	13.7	0.00	—	481
City Park	—	—	—	—	—	—	—	—	—	—	—	0.76	0.00	0.76	0.08	0.00	—	2.68
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	—	—	—	—	—	—	—	—	—	—	—	1,376	0.00	1,376	138	0.00	—	4,816
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,120	0.00	1,120	112	0.00	—	3,919
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	63.8	0.00	63.8	6.38	0.00	—	223
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	137	0.00	137	13.7	0.00	—	481

City Park	—	—	—	—	—	—	—	—	—	—	—	0.76	0.00	0.76	0.08	0.00	—	2.68
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	—	—	—	—	—	—	—	—	—	—	—	1,376	0.00	1,376	138	0.00	—	4,816
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	185	0.00	185	18.5	0.00	—	649
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.98	0.00	8.98	0.90	0.00	—	31.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	10.6	0.00	10.6	1.06	0.00	—	36.9
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	22.8	0.00	22.8	2.27	0.00	—	79.6
City Park	—	—	—	—	—	—	—	—	—	—	—	0.13	0.00	0.13	0.01	0.00	—	0.44
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	—	—	—	—	—	—	—	—	—	—	—	228	0.00	228	22.8	0.00	—	797

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	157	157
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.37	1.37
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.09	1.09
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.12	2.12
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	157	157
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.37	1.37
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.09	1.09
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.12	2.12

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.9	25.9
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18	0.18
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35	0.35
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.7	26.7

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Total	7.57	6.89	19.3	17.6	0.03	1.01	0.00	1.01	1.01	0.00	1.01	0.00	3,526	3,526	0.14	0.03	0.00	3,538
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Total	7.57	6.89	19.3	17.6	0.03	1.01	0.00	1.01	1.01	0.00	1.01	0.00	3,526	3,526	0.14	0.03	0.00	3,538
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency Generator	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Total	0.19	0.17	0.48	0.44	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	80.0	80.0	< 0.005	< 0.005	0.00	80.2

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
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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
Industrial Park	954	719	350	304,438	52,603	39,660	19,322	16,789,781
Single Family Housing	1,037	1,043	933	373,452	7,846	7,887	7,055	2,824,603
Apartments Low Rise	1,078	728	618	351,318	8,156	5,506	4,671	2,657,188
Apartments Mid Rise	1,566	1,577	1,301	558,387	11,847	11,925	9,837	4,223,358
City Park	689	32.3	36.1	183,213	5,096	239	267	1,355,110
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	4,695	3,539	1,728	1,498,767	34,728	26,173	12,783	11,085,424

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	110
Propane Fireplaces	0
Electric Fireplaces	0

No Fireplaces	0
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	160
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	345
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	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)
1448482.5	482,828	2,514,447	838,149	14,375

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)
Industrial Park	29,239,955	261	0.0330	0.0040	0.00
Single Family Housing	1,027,317	261	0.0330	0.0040	3,912,075
Apartments Low Rise	1,095,486	261	0.0330	0.0040	2,715,236
Apartments Mid Rise	1,952,410	261	0.0330	0.0040	4,448,020
City Park	0.00	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

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Industrial Park	387,643,913	0.00
Single Family Housing	4,474,115	24,968,435
Apartments Low Rise	6,507,804	0.00
Apartments Mid Rise	14,032,452	0.00
City Park	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	2,079	—
Single Family Housing	101	—
Apartments Low Rise	118	—

Apartments Mid Rise	255	—
City Park	1.42	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	User Defined	150	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	7.00	1.00	50.0	300	0.73
Fire Pump	Diesel	7.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—

Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702

Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—

Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip Rates taken from trip generation Trip lengths adjusted per Streetlight Data available in the VMT assessment
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	SCAQMD Rule 445 no wood burning devices. Wood burning devices added to gas devices.
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural Gas will not be utilized
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. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

ATTACHMENT D

**CALEEMOD PHASE 1 PROJECT BUILDOUT OPERATIONAL
EMISSIONS MODEL OUTPUTS – SCENARIO B**

15605-Harvest Landing Operations (Phase 1) Project Buildout VMT TL Detailed Report

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4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15605-Harvest Landing Operations (Phase 1) Project Buildout VMT TL
Operational Year	2030
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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	1,207	1000sqft	27.7	1,207,000	523,530	—	—	TUMF High Cube (Building 2, 6, and 7)

Unrefrigerated Warehouse-No Rail	322	1000sqft	7.39	322,079	545,221	—	—	Parcel Hub (Building 1)
Industrial Park	199	1000sqft	4.56	198,500	170,328	—	—	General Light Industrial (Building 3, 4, and 5)
Medical Office Building	5.50	1000sqft	0.13	5,500	4,359	—	—	Medical Office Building
Supermarket	167	1000sqft	3.83	167,050	132,388	—	—	Large Format Retail Anchor
Regional Shopping Center	190	1000sqft	4.36	189,845	150,454	—	—	Shopping Center
Supermarket	23.3	1000sqft	0.53	23,256	18,431	—	—	Supermarket
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.21	8,934	7,080	—	—	Fast Casual Restaurant
High Turnover (Sit Down Restaurant)	21.1	1000sqft	0.48	21,122	16,739	—	—	High-Turnover (Sit -Down) Restaurant
Fast Food Restaurant with Drive Thru	11.0	1000sqft	0.25	11,000	8,718	—	—	Fast Food Restaurant w DT
Fast Food Restaurant with Drive Thru	1.80	1000sqft	0.04	1,800	1,427	—	—	Coffee/Donut Shop w DT
Gasoline/Service Station	12.0	Pump	0.04	10,228	8,106	—	—	Gasoline/Service Station (12 VFP)
Parking Lot	3,286	Space	25.8	0.00	0.00	—	—	—
Other Asphalt Surfaces	160	Acre	160	0.00	0.00	—	—	—
User Defined Industrial	1,728	User Defined Unit	0.00	0.00	0.00	—	—	PC Trips

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances

Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

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.	204	193	158	857	2.51	3.62	192	196	3.46	49.1	52.6	2,765	278,692	281,457	291	21.7	2,132	297,315
Mit.	187	178	157	762	2.50	3.46	192	196	3.33	49.1	52.5	1,487	276,057	277,543	162	21.1	2,132	290,001
% Reduced	8%	8%	1%	11%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	1%	44%	3%	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	180	171	165	673	2.39	3.46	192	196	3.33	49.1	52.5	2,765	267,247	270,012	291	21.9	1,568	285,401
Mit.	180	171	165	673	2.39	3.46	192	196	3.33	49.1	52.5	1,487	264,955	266,442	163	21.3	1,568	278,432
% Reduced	—	—	—	—	—	—	—	—	—	—	—	46%	1%	1%	44%	3%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	164	156	132	631	2.03	2.49	160	163	2.36	40.9	43.3	2,765	229,122	231,886	290	19.3	1,764	246,652
Mit.	153	145	132	566	2.02	2.38	160	163	2.27	40.9	43.2	1,487	226,595	228,081	161	18.7	1,764	239,447
% Reduced	7%	7%	< 0.5%	10%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	3%	—	3%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	30.0	28.4	24.1	115	0.37	0.45	29.2	29.7	0.43	7.47	7.90	458	37,934	38,391	47.9	3.20	292	40,836
Mit.	27.9	26.5	24.0	103	0.37	0.43	29.2	29.7	0.41	7.47	7.89	246	37,515	37,761	26.6	3.10	292	39,643
% Reduced	7%	7%	< 0.5%	10%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	3%	—	3%

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	130	121	138	745	2.46	2.39	192	195	2.26	49.1	51.4	—	254,749	254,749	9.55	19.3	580	261,308
Area	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	204	193	158	857	2.51	3.62	192	196	3.46	49.1	52.6	2,765	278,692	281,457	291	21.7	2,132	297,315
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	123	114	146	656	2.35	2.39	192	195	2.26	49.1	51.4	—	243,691	243,691	10.1	19.5	15.0	249,783
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553

Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	180	171	165	673	2.39	3.46	192	196	3.33	49.1	52.5	2,765	267,247	270,012	291	21.9	1,568	285,401
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	101	93.9	127	562	2.00	2.06	160	162	1.95	40.9	42.9	—	207,909	207,909	8.43	17.0	212	213,385
Area	61.9	61.0	0.54	64.5	< 0.005	0.11	—	0.11	0.09	—	0.09	—	265	265	0.01	< 0.005	—	266
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415
Total	164	156	132	631	2.03	2.49	160	163	2.36	40.9	43.3	2,765	229,122	231,886	290	19.3	1,764	246,652
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.5	17.1	23.1	103	0.37	0.38	29.2	29.6	0.36	7.47	7.83	—	34,422	34,422	1.40	2.81	35.1	35,328
Area	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,021	3,021	0.36	0.04	—	3,041
Water	—	—	—	—	—	—	—	—	—	—	—	143	379	522	14.7	0.35	—	995
Waste	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	30.0	28.4	24.1	115	0.37	0.45	29.2	29.7	0.43	7.47	7.90	458	37,934	38,391	47.9	3.20	292	40,836

2.6. Operations Emissions by Sector, Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Mobile	130	121	138	745	2.46	2.39	192	195	2.26	49.1	51.4	—	254,749	254,749	9.55	19.3	580	261,308
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,618	16,618	1.98	0.21	—	16,731
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	187	178	157	762	2.50	3.46	192	196	3.33	49.1	52.5	1,487	276,057	277,543	162	21.1	2,132	290,001
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	123	114	146	656	2.35	2.39	192	195	2.26	49.1	51.4	—	243,691	243,691	10.1	19.5	15.0	249,783
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,575	16,575	1.98	0.21	—	16,687
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	180	171	165	673	2.39	3.46	192	196	3.33	49.1	52.5	1,487	264,955	266,442	163	21.3	1,568	278,432
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	101	93.9	127	562	2.00	2.06	160	162	1.95	40.9	42.9	—	207,909	207,909	8.43	17.0	212	213,385
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,605	16,605	1.98	0.21	—	16,717
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415

Total	153	145	132	566	2.02	2.38	160	163	2.27	40.9	43.2	1,487	226,595	228,081	161	18.7	1,764	239,447
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.5	17.1	23.1	103	0.37	0.38	29.2	29.6	0.36	7.47	7.83	—	34,422	34,422	1.40	2.81	35.1	35,328
Area	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	2,749	2,749	0.33	0.04	—	2,768
Water	—	—	—	—	—	—	—	—	—	—	—	104	276	380	10.7	0.26	—	723
Waste	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	27.9	26.5	24.0	103	0.37	0.43	29.2	29.7	0.41	7.47	7.89	246	37,515	37,761	26.6	3.10	292	39,643

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	2.26	1.20	54.1	14.6	0.57	1.04	21.7	22.8	1.00	5.81	6.81	—	61,214	61,214	0.95	9.09	140	64,086
Industrial Park	0.46	0.24	10.9	2.93	0.12	0.21	4.37	4.58	0.20	1.17	1.37	—	12,325	12,325	0.19	1.83	28.2	12,904

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Medical Office Building	0.66	0.62	0.44	4.27	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,136	1,136	0.05	0.05	2.63	1,156
Supermarket	43.2	40.5	27.1	255	0.65	0.43	59.9	60.3	0.40	15.2	15.6	—	66,020	66,020	2.96	3.11	152	67,173
Regional Shopping Center	29.5	27.5	19.9	191	0.50	0.33	46.3	46.6	0.31	11.7	12.1	—	50,776	50,776	2.13	2.31	117	51,636
High Turnover (Sit Down Restaurant)	12.5	11.8	7.73	72.6	0.18	0.12	16.9	17.0	0.11	4.29	4.40	—	18,647	18,647	0.85	0.89	42.8	18,975
Fast Food Restaurant with Drive Thru	22.9	21.9	10.6	91.0	0.19	0.14	17.1	17.3	0.13	4.35	4.47	—	19,550	19,550	1.28	1.14	43.4	19,965
Gasoline/Service Station	6.41	6.15	2.86	24.1	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,981	4,981	0.35	0.30	11.0	5,091
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	12.1	11.4	4.42	89.7	0.20	0.08	20.7	20.8	0.07	5.22	5.29	—	20,099	20,099	0.80	0.54	42.2	20,322
Total	130	121	138	745	2.46	2.39	192	195	2.26	49.1	51.4	—	254,749	254,749	9.55	19.3	580	261,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Unrefrig erated	2.23	1.17	56.4	14.6	0.57	1.04	21.7	22.8	1.00	5.81	6.81	—	61,224	61,224	0.95	9.09	3.64	63,962
Industria l Park	0.45	0.24	11.4	2.94	0.12	0.21	4.37	4.58	0.20	1.17	1.37	—	12,327	12,327	0.19	1.83	0.73	12,879
Medical Office Building	0.63	0.58	0.48	3.68	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,068	1,068	0.05	0.05	0.07	1,085
Superm arket	40.8	38.0	28.9	223	0.61	0.43	59.9	60.3	0.40	15.2	15.6	—	62,080	62,080	3.12	3.21	3.94	63,118
Regiona l Shoppin g Center	27.9	25.9	21.2	164	0.47	0.33	46.3	46.6	0.31	11.7	12.1	—	47,728	47,728	2.23	2.39	3.04	48,498
High Turnover (Sit Down Restaurant)	11.8	11.1	8.27	63.5	0.17	0.12	16.9	17.0	0.11	4.29	4.40	—	17,536	17,536	0.90	0.91	1.11	17,832
Fast Food Restaurant with Drive Thru	21.6	20.6	11.3	84.7	0.18	0.14	17.1	17.3	0.13	4.35	4.47	—	18,433	18,433	1.39	1.18	1.13	18,819
Gasolin e/Service Station	6.04	5.76	3.05	22.6	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,699	4,699	0.38	0.31	0.28	4,802
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	11.6	10.9	4.85	76.8	0.18	0.08	20.7	20.8	0.07	5.22	5.29	—	18,595	18,595	0.85	0.57	1.09	18,788

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Total	123	114	146	656	2.35	2.39	192	195	2.26	49.1	51.4	—	243,691	243,691	10.1	19.5	15.0	249,783
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	0.36	0.19	9.22	2.35	0.09	0.17	3.49	3.66	0.16	0.93	1.10	—	8,975	8,975	0.14	1.33	8.88	9,385
Industria l Park	0.08	0.04	1.98	0.50	0.02	0.04	0.75	0.79	0.03	0.20	0.24	—	1,928	1,928	0.03	0.29	1.91	2,016
Medical Office Building	0.09	0.08	0.07	0.54	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	138	138	0.01	0.01	0.15	140
Superm arket	6.18	5.76	4.49	35.2	0.09	0.07	9.13	9.19	0.06	2.32	2.38	—	8,708	8,708	0.43	0.45	9.11	8,862
Regiona l Shoppin g Center	3.88	3.59	3.02	23.8	0.07	0.05	6.46	6.50	0.04	1.64	1.68	—	6,127	6,127	0.28	0.31	6.44	6,232
High Turnover (Sit Down Restaurant)	1.81	1.69	1.29	10.1	0.03	0.02	2.60	2.61	0.02	0.66	0.68	—	2,480	2,480	0.13	0.13	2.59	2,524
Fast Food Restaurant with Drive Thru	3.19	3.04	1.71	13.0	0.03	0.02	2.55	2.57	0.02	0.65	0.67	—	2,524	2,524	0.19	0.16	2.54	2,579
Gasolin e/Service Station	1.03	0.98	0.53	4.01	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	744	744	0.06	0.05	0.74	761
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	1.88	1.76	0.82	13.0	0.03	0.01	3.37	3.38	0.01	0.85	0.86	—	2,798	2,798	0.13	0.09	2.71	2,830
Total	18.5	17.1	23.1	103	0.37	0.38	29.2	29.6	0.36	7.47	7.83	—	34,422	34,422	1.40	2.81	35.1	35,328

4.1.2. Mitigated

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	2.26	1.20	54.1	14.6	0.57	1.04	21.7	22.8	1.00	5.81	6.81	—	61,214	61,214	0.95	9.09	140	64,086
Industrial Park	0.46	0.24	10.9	2.93	0.12	0.21	4.37	4.58	0.20	1.17	1.37	—	12,325	12,325	0.19	1.83	28.2	12,904
Medical Office Building	0.66	0.62	0.44	4.27	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,136	1,136	0.05	0.05	2.63	1,156
Supermarket	43.2	40.5	27.1	255	0.65	0.43	59.9	60.3	0.40	15.2	15.6	—	66,020	66,020	2.96	3.11	152	67,173
Regional Shopping Center	29.5	27.5	19.9	191	0.50	0.33	46.3	46.6	0.31	11.7	12.1	—	50,776	50,776	2.13	2.31	117	51,636

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High Turnover (Sit Down Restaurant)	12.5	11.8	7.73	72.6	0.18	0.12	16.9	17.0	0.11	4.29	4.40	—	18,647	18,647	0.85	0.89	42.8	18,975
Fast Food Restaurant with Drive Thru	22.9	21.9	10.6	91.0	0.19	0.14	17.1	17.3	0.13	4.35	4.47	—	19,550	19,550	1.28	1.14	43.4	19,965
Gasoline/Service Station	6.41	6.15	2.86	24.1	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,981	4,981	0.35	0.30	11.0	5,091
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	12.1	11.4	4.42	89.7	0.20	0.08	20.7	20.8	0.07	5.22	5.29	—	20,099	20,099	0.80	0.54	42.2	20,322
Total	130	121	138	745	2.46	2.39	192	195	2.26	49.1	51.4	—	254,749	254,749	9.55	19.3	580	261,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.23	1.17	56.4	14.6	0.57	1.04	21.7	22.8	1.00	5.81	6.81	—	61,224	61,224	0.95	9.09	3.64	63,962
Industrial Park	0.45	0.24	11.4	2.94	0.12	0.21	4.37	4.58	0.20	1.17	1.37	—	12,327	12,327	0.19	1.83	0.73	12,879
Medical Office Building	0.63	0.58	0.48	3.68	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,068	1,068	0.05	0.05	0.07	1,085

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Superm	40.8	38.0	28.9	223	0.61	0.43	59.9	60.3	0.40	15.2	15.6	—	62,080	62,080	3.12	3.21	3.94	63,118
Regiona l Shoppin g Center	27.9	25.9	21.2	164	0.47	0.33	46.3	46.6	0.31	11.7	12.1	—	47,728	47,728	2.23	2.39	3.04	48,498
High Turnover (Sit Down Restaurant)	11.8	11.1	8.27	63.5	0.17	0.12	16.9	17.0	0.11	4.29	4.40	—	17,536	17,536	0.90	0.91	1.11	17,832
Fast Food Restaurant with Drive Thru	21.6	20.6	11.3	84.7	0.18	0.14	17.1	17.3	0.13	4.35	4.47	—	18,433	18,433	1.39	1.18	1.13	18,819
Gasolin e/Service Station	6.04	5.76	3.05	22.6	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,699	4,699	0.38	0.31	0.28	4,802
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	11.6	10.9	4.85	76.8	0.18	0.08	20.7	20.8	0.07	5.22	5.29	—	18,595	18,595	0.85	0.57	1.09	18,788
Total	123	114	146	656	2.35	2.39	192	195	2.26	49.1	51.4	—	243,691	243,691	10.1	19.5	15.0	249,783
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-No Rail	0.36	0.19	9.22	2.35	0.09	0.17	3.49	3.66	0.16	0.93	1.10	—	8,975	8,975	0.14	1.33	8.88	9,385

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Industrial Park	0.08	0.04	1.98	0.50	0.02	0.04	0.75	0.79	0.03	0.20	0.24	—	1,928	1,928	0.03	0.29	1.91	2,016
Medical Office Building	0.09	0.08	0.07	0.54	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	138	138	0.01	0.01	0.15	140
Supermarket	6.18	5.76	4.49	35.2	0.09	0.07	9.13	9.19	0.06	2.32	2.38	—	8,708	8,708	0.43	0.45	9.11	8,862
Regional Shopping Center	3.88	3.59	3.02	23.8	0.07	0.05	6.46	6.50	0.04	1.64	1.68	—	6,127	6,127	0.28	0.31	6.44	6,232
High Turnover (Sit Down Restaurant)	1.81	1.69	1.29	10.1	0.03	0.02	2.60	2.61	0.02	0.66	0.68	—	2,480	2,480	0.13	0.13	2.59	2,524
Fast Food Restaurant with Drive Thru	3.19	3.04	1.71	13.0	0.03	0.02	2.55	2.57	0.02	0.65	0.67	—	2,524	2,524	0.19	0.16	2.54	2,579
Gasoline/Service Station	1.03	0.98	0.53	4.01	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	744	744	0.06	0.05	0.74	761
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	1.88	1.76	0.82	13.0	0.03	0.01	3.37	3.38	0.01	0.85	0.86	—	2,798	2,798	0.13	0.09	2.71	2,830
Total	18.5	17.1	23.1	103	0.37	0.38	29.2	29.6	0.36	7.47	7.83	—	34,422	34,422	1.40	2.81	35.1	35,328

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	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,474	2,474	0.31	0.04	—	2,493
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.1
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	4,362	4,362	0.55	0.07	—	4,396
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,324	1,324	0.17	0.02	—	1,334
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	754	754	0.10	0.01	—	760

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	321	321	0.04	< 0.005	—	324
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
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	—	—	—	—	—	—	—	—	—	—	—	—	15,105	15,105	1.91	0.23	—	15,222
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,474	2,474	0.31	0.04	—	2,493
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.1
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	4,362	4,362	0.55	0.07	—	4,396

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	—	1,324	1,324	0.17	0.02	—	1,334
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	754	754	0.10	0.01	—	760
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	321	321	0.04	< 0.005	—	324
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
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	—	—	—	—	—	—	—	—	—	—	—	—	15,105	15,105	1.91	0.23	—	15,222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	832	832	0.11	0.01	—	839
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	410	410	0.05	0.01	—	413

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3	< 0.005	< 0.005	—	11.4
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	722	722	0.09	0.01	—	728
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	219	219	0.03	< 0.005	—	221
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.02	< 0.005	—	126
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	53.2	53.2	0.01	< 0.005	—	53.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.01	< 0.005	—	117
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	—	—	—	—	—	—	—	—	—	—	—	—	2,501	2,501	0.32	0.04	—	2,520

4.2.2. Electricity Emissions By Land Use - Mitigated

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

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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	—	—	—	—	—	—	—	—	—	—	—	—	5,059	5,059	0.64	0.08	—	5,098
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,477	2,477	0.31	0.04	—	2,496
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.6	68.6	0.01	< 0.005	—	69.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	2,883	2,883	0.36	0.04	—	2,905
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,310	1,310	0.17	0.02	—	1,320
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	637	637	0.08	0.01	—	642
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.03	< 0.005	—	273
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.4

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
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	—	—	—	—	—	—	—	—	—	—	—	—	13,478	13,478	1.71	0.21	—	13,583
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,473	2,473	0.31	0.04	—	2,492
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	2,879	2,879	0.36	0.04	—	2,901
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,306	1,306	0.17	0.02	—	1,316
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	637	637	0.08	0.01	—	641

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Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.03	< 0.005	—	273
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.7	69.7	0.01	< 0.005	—	70.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
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	—	—	—	—	—	—	—	—	—	—	—	—	13,435	13,435	1.70	0.21	—	13,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	836	836	0.11	0.01	—	842
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	410	410	0.05	0.01	—	413
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	11.4	11.4	< 0.005	< 0.005	—	11.4
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	477	477	0.06	0.01	—	481
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	217	217	0.03	< 0.005	—	218

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	105	105	0.01	< 0.005	—	106
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	44.9	44.9	0.01	< 0.005	—	45.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.01	< 0.005	—	117
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	—	—	—	—	—	—	—	—	—	—	—	—	2,229	2,229	0.28	0.03	—	2,246

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

Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149

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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrig erated Wareho use-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
Industria l Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Superm arket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regiona l Shoppin g Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7

Gasoline/Service	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027

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Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
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

Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Unrefrig 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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7
Gasoline/Service Station	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521
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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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.8	15.5	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Total	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.10	1.94	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Total	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1

4.3.2. Mitigated

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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	678	1,784	2,462	69.7	1.68	—	4,704

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	234	321	9.05	0.22	—	613
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	3.62	4.94	0.14	< 0.005	—	9.32
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	123	168	4.62	0.11	—	317
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	77.4	104	2.77	0.07	—	194
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	45.8	63.3	1.80	0.04	—	121
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	19.5	27.0	0.77	0.02	—	51.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.26	1.57	0.03	< 0.005	—	2.58
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	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	678	1,784	2,462	69.7	1.68	—	4,704
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	234	321	9.05	0.22	—	613
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	3.62	4.94	0.14	< 0.005	—	9.32
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	123	168	4.62	0.11	—	317
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	77.4	104	2.77	0.07	—	194
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	45.8	63.3	1.80	0.04	—	121
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	19.5	27.0	0.77	0.02	—	51.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.26	1.57	0.03	< 0.005	—	2.58
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	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	112	295	408	11.5	0.28	—	779
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	14.6	38.7	53.2	1.50	0.04	—	101
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.22	0.60	0.82	0.02	< 0.005	—	1.54
Supermarket	—	—	—	—	—	—	—	—	—	—	—	7.44	20.4	27.8	0.77	0.02	—	52.5
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	4.46	12.8	17.3	0.46	0.01	—	32.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.89	7.58	10.5	0.30	0.01	—	20.1
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.23	3.23	4.46	0.13	< 0.005	—	8.54

Gasoline/Service	—	—	—	—	—	—	—	—	—	—	—	0.05	0.21	0.26	0.01	< 0.005	—	0.43
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	—	—	—	—	—	—	—	—	—	—	—	143	379	522	14.7	0.35	—	995

4.4.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	491	1,297	1,788	50.5	1.22	—	3,413
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	170	234	6.56	0.16	—	445
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	2.64	3.60	0.10	< 0.005	—	6.77
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	92.3	126	3.45	0.08	—	237

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	56.9	76.4	2.01	0.05	—	141
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	33.2	45.8	1.30	0.03	—	87.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	14.1	19.5	0.55	0.01	—	37.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	0.95	1.17	0.02	< 0.005	—	1.91
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	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,297	1,788	50.5	1.22	—	3,413

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	170	234	6.56	0.16	—	445
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	2.64	3.60	0.10	< 0.005	—	6.77
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	92.3	126	3.45	0.08	—	237
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	56.9	76.4	2.01	0.05	—	141
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	33.2	45.8	1.30	0.03	—	87.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	14.1	19.5	0.55	0.01	—	37.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	0.95	1.17	0.02	< 0.005	—	1.91
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	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.3	215	296	8.36	0.20	—	565
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10.5	28.1	38.7	1.09	0.03	—	73.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.16	0.44	0.60	0.02	< 0.005	—	1.12
Supermarket	—	—	—	—	—	—	—	—	—	—	—	5.55	15.3	20.8	0.57	0.01	—	39.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.24	9.41	12.7	0.33	0.01	—	23.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.09	5.50	7.59	0.22	0.01	—	14.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.89	2.34	3.23	0.09	< 0.005	—	6.18
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.04	0.16	0.19	< 0.005	< 0.005	—	0.32
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	—	—	—	—	—	—	—	—	—	—	—	104	276	380	10.7	0.26	—	723
-------	---	---	---	---	---	---	---	---	---	---	---	-----	-----	-----	------	------	---	-----

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	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	449
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	76.8

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	5.30	0.00	5.30	0.53	0.00	—	18.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	95.8	0.00	95.8	9.57	0.00	—	335
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	17.8	0.00	17.8	1.78	0.00	—	62.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	13.2	0.00	13.2	1.31	0.00	—	46.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.02
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	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101

4.5.2. Mitigated

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

15605-Harvest Landing Operations (Phase 1) Project Buildout VMT TL Detailed Report, 1/14/2025

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	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10

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	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10
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	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.3	0.00	51.3	5.13	0.00	—	179
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.78	0.00	8.78	0.88	0.00	—	30.7
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	2.65	0.00	2.65	0.26	0.00	—	9.27
Supermarket	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	8.89	0.00	8.89	0.89	0.00	—	31.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.59	0.00	—	55.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.58	0.00	6.58	0.66	0.00	—	23.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.29	0.00	0.29	0.03	0.00	—	1.01
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	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.6.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.8.2. Mitigated

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	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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	267	127	119	82,384	14,703	6,986	6,586	4,540,994
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	10,238	8,215	8,109	3,520,340
Industrial Park	90.9	73.8	72.8	31,351	5,017	4,075	4,020	1,729,961
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212
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5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	267	127	119	82,384	14,703	6,986	6,586	4,540,994
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	10,238	8,215	8,109	3,520,340
Industrial Park	90.9	73.8	72.8	31,351	5,017	4,075	4,020	1,729,961
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	3,249,471	1,083,157	485,764

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
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Unrefrigerated Warehouse-No Rail	5,555,038	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	261	0.0330	0.0040	0.00
Industrial Park	3,462,470	261	0.0330	0.0040	0.00
Medical Office Building	95,937	261	0.0330	0.0040	151,727
Supermarket	5,358,917	261	0.0330	0.0040	2,803,892
Regional Shopping Center	1,852,582	261	0.0330	0.0040	1,124,295
Supermarket	746,046	261	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	313,717	261	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	741,697	261	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	386,264	261	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	63,207	261	0.0330	0.0040	205,306
Gasoline/Service Station	97,872	261	0.0330	0.0040	439,296
Parking Lot	984,872	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

5.11.2. Mitigated

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	5,555,038	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	261	0.0330	0.0040	0.00
Industrial Park	3,460,731	261	0.0330	0.0040	0.00
Medical Office Building	95,889	261	0.0330	0.0040	151,727

Supermarket	3,536,697	261	0.0330	0.0040	2,803,892
Regional Shopping Center	1,827,696	261	0.0330	0.0040	1,124,295
Supermarket	492,364	261	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	264,822	261	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	626,100	261	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	326,063	261	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	53,356	261	0.0330	0.0040	205,306
Gasoline/Service Station	97,555	261	0.0330	0.0040	439,296
Parking Lot	984,872	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

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	279,118,750	8,300,940
Unrefrigerated Warehouse-No Rail	74,480,769	8,644,867
Industrial Park	45,903,125	2,700,672
Medical Office Building	690,143	69,115
Supermarket	20,591,955	2,099,106
Regional Shopping Center	14,062,298	2,385,555
Supermarket	2,866,726	292,237
High Turnover (Sit Down Restaurant)	2,711,770	112,258
High Turnover (Sit Down Restaurant)	6,411,239	265,409
Fast Food Restaurant with Drive Thru	3,338,871	138,230

Fast Food Restaurant with Drive Thru	546,361	22,626
Gasoline/Service Station	159,383	128,526
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	202,193,623	6,640,752
Unrefrigerated Warehouse-No Rail	53,953,869	6,915,893
Industrial Park	33,252,224	2,160,537
Medical Office Building	499,940	55,292
Supermarket	15,348,420	1,679,285
Regional Shopping Center	10,203,603	1,908,444
Supermarket	2,136,743	233,789
High Turnover (Sit Down Restaurant)	1,958,983	89,807
High Turnover (Sit Down Restaurant)	4,631,479	212,327
Fast Food Restaurant with Drive Thru	2,412,000	110,584
Fast Food Restaurant with Drive Thru	394,691	18,101
Gasoline/Service Station	115,648	102,821
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
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Unrefrigerated Warehouse-No Rail	1,135	—
Unrefrigerated Warehouse-No Rail	303	—
Industrial Park	246	—
Medical Office Building	59.4	—
Supermarket	942	—
Regional Shopping Center	199	—
Supermarket	131	—
High Turnover (Sit Down Restaurant)	106	—
High Turnover (Sit Down Restaurant)	251	—
Fast Food Restaurant with Drive Thru	127	—
Fast Food Restaurant with Drive Thru	20.7	—
Gasoline/Service Station	6.47	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	454	—
Unrefrigerated Warehouse-No Rail	121	—
Industrial Park	98.5	—
Medical Office Building	29.7	—
Supermarket	471	—
Regional Shopping Center	99.7	—
Supermarket	65.6	—
High Turnover (Sit Down Restaurant)	53.2	—
High Turnover (Sit Down Restaurant)	126	—
Fast Food Restaurant with Drive Thru	63.4	—

Fast Food Restaurant with Drive Thru	10.4	—
Gasoline/Service Station	3.23	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

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Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.15.2. Mitigated

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

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	7.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	5.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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 $\frac{3}{4}$ 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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—

Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4

English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted Schedule compressed based on Opening Year of 2026 and Demolition, Site prep, Grading and Building construction dates adjusted based on ratio of default schedule. Paving and architectural coating work days are based on defaults
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per Streetlight Data available in the VMT assessment
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: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural gas will not be utilized for the industrial Portion of the project. Commercial Portion will utilize Natural Gas
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater