

Appendices

Appendix D Air Quality, Greenhouse Gas, Energy, and Natural Gas Calculations

Appendices

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CalEEMod Inputs - Addendum to 1401 Quail Street Residential EIR Project, Construction

Name: Addendum to 1401 Quail Street Residential EIR Project, Construction
Project Number: CNB-24
Project Location: 1401 Quail St Newport Beach, CA 92660
County/Air Basin: Orange County
Climate Zone: 8
Land Use Setting: Urban
Operational Year: 2026
Gas Utility: Southern California Gas
Electric Utility: Southern California Edison
Air Basin: South Coast Air Basin
Air District: South Coast AQMD
SRA: 18 - North Orange County Coastal

Project Site Acreage	1.71
Disturbed Site Acreage	1.71

Project Components	SQFT	Amount of Debris to be Hauled Offsite
Demolition		
Building Demolition (Tons) ¹	22,536	1,126
Asphalt Demolition (Tons) ²	22,536	648

Notes

¹ Does not account for 629 tons that will be recycled/reprocessed onsite.

² Does not account for 420 tons that will be recycled/reprocessed onsite.

Project Components	SQFT	Building Footprint	Acres	Dwelling Units	Stories
Construction					
Residential Podium Building	137,693	20,488	0.47	78	6
Surface Work					
	SQFT	Footprint	Acres	Stalls¹	
Parking Garage	32,150	32,150	0.74	159	
Surface Parking Lot	1,135	1,135	0.03	NA	
Other Hardscape	7,171	7,171	0.16	NA	
Landscaping	13,690	13,690	0.31	NA	

Notes

¹ Total parking stalls.

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet	Landscape Area Square Feet
Residential	Apartments Mid-Rise	78	Dwelling Units	0.78	137,693	13,690
Parking	Enclosed Parking with Elevator	32.15	1000 sqft	0.74	32,150	0
Parking	Parking Lot	1.14	1000 sqft	0.03	1,135	0
Parking	Other Non-Asphalt Surfaces	7.17	1000 sqft	0.16	7,171	0
				1.71		

Demolition

Component	Amount to be Demolished and Hauled Offsite ¹	Haul Truck Capacity (Ton) ²	Haul Distance (miles) ²	Total Trip Ends	Duration (days)	Trip Ends Per Day
Asphalt Demo (Tons)	648	9	20	144	6	24
Building Demo (Tons)	1,126	9	20	251	5	51

Notes

- ¹ Amount to be hauled offsite provided by Applicant.
- ² Haul truck capacity and haul distance provided by Applicant. 18 CY converted to 9 tons.

Soil Haul¹

Construction Activities	Export Volume (CY)	Haul Truck Capacity (CY) ¹	Haul Distance (miles) ²	Total Trip Ends	Trip Ends per Day	Duration (days)
Site Preparation Export	2,690	16	23	336	56	6
Rough Grading Export	6,500	16	23	813	68	12
Fine Grading Export	110	16	23	14	3	5

Notes

- ¹ Based on CalEEMod default.
- ² Based on Applicant information.

Architectural Coating

Percent Painted

Parking Structure Interior Painted: ¹	83%
Parking Structure Exterior Painted: ¹	62%

Residential Interior Painted:	100%
Residential Exterior Painted:	100%

Condition of Approval AQ-1

Interior Paint VOC content: ¹	9	grams per liter
Residential Exterior Paint VOC content: ²	50	grams per liter

Notes

- ¹ Based on South Coast AMQD's super compliant paints (<10 g/L).
- ² Based on Applicant information.

Structures	Land Use Square Feet	CalEEMod Factor ²	Total Paintable Surface Area	Paintable Interior Area ¹	Paintable Exterior Area ¹
Residential Structures					
Apartments Mid-Rise	137,693	2.7	371,771	278,828	92,943
Non-Residential Structures					
Non-Residential Interior Area	32,150	0.05	1,608	1,451	161
Parking					
Enclosed Parking with Elevator	32,150	6%	1,929	1,441	120
Parking Lot	1,140	6%	68	-	68
Other Non-Asphalt Surfaces	7,171	6%	430	-	430
					2,059

Notes

- ¹ CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.
- ² The program assumes the total surface for painting equals 2.7 times the floor square footage for residential square footage defined by the user.
- ³ Assumes that all parking garage, parking lot, and hardscape will be striped. CalEEMod methodology assumes 6% of surface area is striped. CalEEMod assumes 90% for interior surfaces and 10% for the exterior shell for parking structures.

Construction Mitigation

SCAQMD Rule 403

Replace Ground Cover

PM10:	5	% Reduction
PM25:	5	% Reduction

Water Exposed Area

Frequency:	2	per day
PM10:	61	% Reduction
PM25:	61	% Reduction

Unpaved Roads

Vehicle Speed:	25	mph
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SCAQMD Rule 1186

Clean Paved Road	9	% PM Reduction
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Pavement Volume to Weight Conversion

Component	AC Mass (tons)¹	AC Mass (CY)²
Asphalt Demolition	648.00	1296
Total		

Notes

¹ Amount to be hauled offsite as provided by Applicant.

² Utilized CalEEMod v 2022 assumption of 2 CY/ton conversion factor.

Building Demolition Haul Trip Calculation

Conversion factors³

0.046 ton/SF	Building Debris
2.0 CY/ton	Building Debris
1.2641662 tons/cy	Soil
20 tons	Truck Capacity in tons
18 CY	Truck Capacity in CY
0.9 CY/ton	Soil

Building	Tons¹	CY of Building Materials	Haul Truck (CY)²	Round Trips	Total Trip Ends
Building Demolition	1,126	2,252	9	251	502

Notes

- ¹ Amount to be hauled offsite as provided by Applicant.
- ² Haul truck capacity provided by Applicant. Converted 18 CY to 25 tons.
- ³ CalEEMod User's Guide Version 2022, Appendix C

CalEEMod Construction Off-Road Equipment Inputs

Based on information from Applicant where indicated. CalEEMod default worker and vendor trips have been used for all construction activities. Where information has not been provided by the Applicant, CalEEMod defaults have been used.

Construction Equipment Details ¹						
Equipment Given	CalEEMod Equipment	# of Equipment	hr/day	hp ⁴	total trips per day	On-Site Water Truck Travel Distance (miles/day) ⁶
Asphalt Demolition (includes equipment used for onsite asphalt debris recycling/reprocessing)						
Backhoe or front end loader	Tractors/Loaders/Backhoes	1	8	84		
Skid steer	Skid Steer Loaders	1	8	71		
Track Excavator	Excavators	1	8	314		
Front End Loader	Rubber Tired Loaders	1	8	249		
Worker Trips					10	
Vendor Trips					0	
Hauling Trips					64	
Water Trucks			Acres Disturbed: 0.50		4	0.41
Building Demolition						
Excavator	Excavators	2	8	314		
Front End Loader	Rubber Tired Loaders	1	8	249		
Worker Trips					8	
Vendor Trips					0	
Hauling Trips					91	
Water Trucks			Acres Disturbed: 0.00		0	0
Building Demolition Debris Recycling/Reprocessing²						
Excavator	Excavators	2	8	314		
Front End Loader	Rubber Tired Loaders	1	8	249		
Worker Trips					8	
Vendor Trips					0	
Hauling Trips					0	
Water Trucks			Acres Disturbed: 0.00		0	
Site Preparation						
Backhoe/Skid Loader	Tractors/Loaders/Backhoes	1	8	84		
Worker Trips					3	
Vendor Trips					0	
Hauling Trips					56	
Water Trucks			Acres Disturbed: 0.50		4	0.41
Rough Grading						
Front end loader	Rubber Tired Loaders	1	8	249		
Tracked Dozer	Rubber Tired Dozers	1	8	367		
Grading tractor	Graders	1	8	148		
Excavator	Excavators	1	8	314		
Worker Trips					10	
Vendor Trips					0	
Hauling Trips					108	
Water Trucks			Acres Disturbed: 1.00		6	0.83
Fine Grading						
Grading tractor	Graders	1	8	148		
Skid steer	Skid Steer Loaders	1	8	71		
Mini Excavator	Excavators	1	8	36		
Worker Trips					8	
Vendor Trips					0	
Hauling Trips					43	
Water Trucks			Acres Disturbed: 0.50		4	0.41
Utility Trenching						
Back hoe	Tractors/Loaders/Backhoes	1	8	84		
Excavator/track hoe	Excavators	1	8	314		
Skid Steer	Skid Steer Loaders	1	8	49		
Worker Trips					8	
Vendor Trips					0	
Hauling Trips					0	
Water Trucks			Acres Disturbed: 0.50		4	0.41
Building Construction³						
Rough terrain forklift/telehandler	Rough Terrain Forklift	1	8	160		
Concrete Boom Pump	Paving Equipment	1	8	425		
Worker Trips					70	
Vendor Trips					14	
Hauling Trips					82	
Paving						
Vibratory roller	Rollers	1	8	142		
Skid Steer	Skid Steer Loaders	1	8	71		
Worker Trips					5	
Vendor Trips					0	
Hauling Trips ⁵					40	

Architectural Coating						
Forklift	Forklifts	1	8	160		
Pump	Paving Equipment	1	5	425		
Worker Trips					14	
Vendor Trips					0	
Hauling Trips					0	
Finishing/Landscaping						
Skid steer	Skid Steer Loaders	1	8	71		
Backhoe	Tractors/Loaders/Backhoes	1	8	84		
Worker Trips					5	
Vendor Trips					0	
Hauling Trips					40	

Notes

- ¹ Included dump/semi/box trucks as hauling trips.
- ² Assume same equipment mix as provided for Building Demolition phase.
- ³ Included concrete boom pump for parking garage.
- ⁴ Utilized HP provided by Applicant, unless default HP is higher.
- ⁵ Included 20 concrete trucks as as daily hauling trips.
- ⁶ Onsite water truck travel distanced calculated based on spray width of 20 ft for 0.4125 mi/ac/watering rate.

Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day) ¹	Water Truck Capacity (gallons) ²
10,000	4,000

Notes:

- ¹ Based on data provided in Guidance for Application for Dust Control Permit
Maricopa County Air Quality Department. 2005, June. Guidance for Application of Dust Control Permit.
https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf.
- ² Based on standard water truck capacity:
McLellan Industries. 2022, January (access). Water Trucks. <https://www.mclellanindustries.com/trucks/water-trucks/>
- ³ Assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.

Construction Activities and Schedule Assumptions

* based on schedule provided by the Applicant

Construction Schedule			
Construction Activities	Start Date	End Date	CalEEMod Duration (Workday)
Asphalt Demolition	3/1/2024	3/9/2024	6
Building Demolition	3/12/2024	3/18/2024	5
Building Debris Onsite Processing/Recycling	3/19/2024	3/29/2024	9
Site Preparation	4/2/2024	4/9/2024	6
Rough Grading	4/12/2024	4/29/2024	12
Fine Grading	5/3/2024	5/9/2024	5
Utility Trenching	5/11/2024	5/25/2024	10
Building Construction	6/2/2024	12/5/2025	395
Paving	9/6/2024	9/23/2024	12
Architectural Coating	9/27/2025	10/22/2025	18
Finishing/Landscaping	11/13/2025	11/28/2025	12

Notes

¹ Include asphalt demolition onsite processing/recycling duration.

Overlapping Construction Schedule			
Construction Activities	Start Date	End Date	CalEEMod Duration (Workday)
Asphalt Demolition	3/1/2024	3/9/2024	6
Building Demolition	3/12/2024	3/18/2024	5
Building Debris Onsite Processing/Recycling	3/19/2024	3/29/2024	9
Site Preparation	4/2/2024	4/9/2024	6
Rough Grading	4/12/2024	4/29/2024	12
Fine Grading	5/3/2024	5/9/2024	5
Utility Trenching	5/11/2024	5/25/2024	10
Building Construction	6/2/2024	9/5/2024	69
Building Construction and Paving	9/6/2024	9/23/2024	12
Building Construction	9/24/2024	9/26/2025	264
Building Construction and Architectural Coating	9/27/2025	10/22/2025	18
Building Construction	10/23/2025	11/12/2025	15
Building Construction and Finishing/Landscaping	11/13/2025	11/28/2025	12
Building Construction	11/29/2025	12/5/2025	5

Construction Trips

Phase Name	Worker Trip Ends Per Day	Vendor Trip Ends Per Day	Haul Truck Trip Ends Per Day	Start Date	End Date	Workdays
Asphalt Demolition	10	4	64	3/1/2024	3/9/2024	6
Building Demolition	8	0	91	3/12/2024	3/18/2024	5
Building Debris Onsite Processing/Recycling	8	0	0	3/19/2024	3/29/2024	9
Site Preparation	3	0	56	4/2/2024	4/9/2024	6
Rough Grading	10	0	108	4/12/2024	4/29/2024	12
Fine Grading	8	0	43	5/3/2024	5/9/2024	5
Utility Trenching	8	0	0	5/11/2024	5/25/2024	10
Building Construction	70	14	82	6/2/2024	12/5/2025	395
Paving	5	0	40	9/6/2024	9/23/2024	12
Architectural Coating	14	0	0	9/27/2025	10/22/2025	18
Finishing/Landscaping	5	0	40	11/13/2025	11/28/2025	12

Construction Activity (Overlapping)	Worker Trip Ends Per Day	Vendor Trip Ends Per Day	Haul Truck Trip Ends Per Day	Start Date	End Date	Workdays
Asphalt Demolition	10	4	64	3/1/2024	3/9/2024	6
Building Demolition	8	0	91	3/12/2024	3/18/2024	5
Building Debris Onsite Processing/Recycling	8	0	0	3/19/2024	3/29/2024	9
Site Preparation	3	0	56	4/2/2024	4/9/2024	6
Rough Grading	10	0	108	4/12/2024	4/29/2024	12
Fine Grading	8	0	43	5/3/2024	5/9/2024	5
Utility Trenching	8	0	0	5/11/2024	5/25/2024	10
Building Construction	70	14	82	6/2/2024	9/5/2024	69
Building Construction and Paving	75	14	122	9/6/2024	9/23/2024	12
Building Construction	70	14	82	9/24/2024	9/26/2025	264
Building Construction and Architectural Coating	84	14	82	9/27/2025	10/22/2025	18
Building Construction	70	14	82	10/23/2025	11/12/2025	15
Building Construction and Finishing/Landscaping	75	14	122	11/13/2025	11/28/2025	12
Building Construction	70	14	82	11/29/2025	12/5/2025	5
	84	14	122			

CalEEMod Inputs - Addendum to 1401 Quail Street Residential EIR Project, Operation

Name: Addendum to 1401 Quail Street Residential EIR Project, Operation
Project Number: CNB-24
Project Location: 1401 Quail St Newport Beach, CA 92660
County/Air Basin: Orange County
Climate Zone: 8
Land Use Setting: Urban
Operational Year: 2026
Gas Utility: Southern California Gas
Electric Utility: Southern California Edison
Air Basin: South Coast Air Basin
Air District: South Coast AQMD
SRA: 18 - North Orange County Coastal

Project Site Acreage	1.71
Disturbed Site Acreage	1.71

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet	Landscape Area Square Feet
Residential	Apartments Mid-Rise	78	Dwelling Units	0.78	137,693	13,690
Parking	Enclosed Parking with Elevator	32.15	1000 sqft	0.74	32,150	0
Parking	Parking Lot	1.14	1000 sqft	0.03	1,135	0
Parking	Other Non-Asphalt Surfaces	7.17	1000 sqft	0.16	7,171	0
				1.71		

Net Trips

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday Trips	CalEEMod Trip Rate	Sunday Trips	CalEEMod Trip Rate
Apartments Mid-Rise	110	1.41	306	3.92	278	3.56

Source: Based on ITE Trip rates (11th edition) for multi-family housing not close to rail for weekday and weekend rates.

Net Increase in Water Use^{1,2}

	Indoor (gals/year)	Outdoor (gals/year)	Total
Apartments Mid-Rise	8,205	102	8,307

Notes:

¹ Assumes 100% aerobic treatment.

² Net increase in water demand calculated in Chapter 6.19, *Utilities and Service Providers*, assuming projected indoor water demand is 100% of wastewater generation as conservative estimate.

Net change in Solid Waste ¹

Land Use	Total Solid Waste (tons/yr)
Apartments Mid-Rise	0.00

Notes:

¹ Based on Chapter 6.19, *Utilities and Service Providers*, there would be a net decrease in solid waste generation and therefore modeled 0 tons/yr.

Electricity (Buildings)

Default CalEEMod Energy Use

Land Use Subtype	Total Annual Electricity Consumption (kWh/year)	Total Annual Natural Gas Consumption (kBtu/year)	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Title-24 Natural Gas Energy Intensity (kBtu/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Nontitle-24 Natural Gas Energy Intensity (kBtu/size/year)
Apartments Mid-Rise	285,935.06	866,333.75	81,044.18	754,800.80	204,890.88	111,532.95
Enclosed Parking with Elevator	118,679.52	0.00	112,571.02	0.00	6,108.50	0.00
Parking Lot	998.64	0.00	998.64	0.00	0.00	0.00

Updated CalEEMod Energy Use

Land Use Subtype	Total Annual Electricity Consumption (kWh/year) ¹	Total Annual Natural Gas Consumption (kBtu/year)	Title-24 Electricity Energy Intensity (kWhr/size/year)	Title-24 Natural Gas Energy Intensity (kBtu/size/year)	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Nontitle-24 Natural Gas Energy Intensity (kBtu/size/year)
Apartments Mid-Rise	252,720.00	866,333.75	71,629.85	754,800.80	181,089.68	111,532.95
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00

Notes:

¹ Total electricity consumption of 561,600 kWh/yr provided by Applicant and PV system would provide 55% of solar/renewable electricity (equivalent to 308,880 kWh/year). Used as a conservative analysis, rather than net increase in energy use.

Architectural Coating

*see Construction Assumptions Tab

Southern California Edison Carbon Intensity Factors¹

	Forecasted 2024-2025	
CO ₂ :	348.64	pounds per megawatt hour
CH ₄ :	0.033	pound per megawatt hour
N ₂ O:	0.004	pound per megawatt hour

Notes:

¹ CalEEMod default values.

Changes to the CalEEMod Defaults - Fleet Mix 2025 Apartments Mid-Rise

Trips 110

Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default)	0.551820919	49.96943474	4.144940525	23.15265536	2.737983689	0.701154303	2.182420343	14.45773691	0.377403805	1.531488355	0.060485001	0.0966219	0.0358555	
FleetMix (Model Default) adjusted	0.005518209	0.499694347	0.041449405	0.231526554	0.027379837	0.007011543	0.021824203	0.144577369	0.003774038	0.015314884	0.00060485	0.000966219	0.000358555	100%
Trips	1	55	5	25	3	1	2	16	0	2	0	0	0	110
Percent		79%			6%			14%						100%
without buses/MH	0.005518	0.499694	0.041449	0.231527	0.027380	0.007012	0.021824	0.144577	0.003774	0.015315	0	0.000966	0	100%
Percent		79%			6%			14%						100%
Adjusted without buses/MH	0.005607	0.499694	0.041449	0.231527	0.027820	0.007124	0.022175	0.144577	0.003835	0.015561	0.000000	0.000982	0.000000	100%
Percent adjusted		79%			6%			14%						100%
Assumed Mix		97.0%			1.00%			2.00%						100%
adjusted with Assumed	0.000920	0.609809	0.050583	0.282547	0.004566	0.001169	0.027061	0.020000	0.000629	0.002554	0.000000	0.000161	0.000000	100%
	0.092024	60.980874	5.058334	28.254656	0.456599	0.116928	2.706136	2.000000	0.062938	0.255398	0.000000	0.016113	0.000000	
Percent Check:		97%			1%			2%						
Trips	0	67	6	31	1	0	3	2	0	0	0	0	0	110
		107			1			2						

CalEEMod Construction Model

CNB-24 Custom 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	CNB-24
Construction Start Date	3/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.6
Location	1401 Quail St, Newport Beach, CA 92660, USA
County	Orange
City	Newport Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5995
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
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Apartments Mid Rise	78.0	Dwelling Unit	0.78	137,693	13,690	—	232	—
Enclosed Parking with Elevator	32.1	1000sqft	0.74	32,150	0.00	—	—	—
Parking Lot	1.14	1000sqft	0.03	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	7.17	1000sqft	0.16	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

2. Emissions Summary

2.1. Construction 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.	3.22	19.8	28.1	21.0	0.09	0.90	5.20	6.10	0.84	1.96	2.79	—	12,875	12,875	0.84	1.50	23.4	13,365
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.91	19.8	17.0	17.9	0.08	0.35	4.86	5.15	0.33	0.96	1.23	—	12,441	12,441	0.83	1.49	0.59	12,908
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.97	1.50	7.92	8.83	0.04	0.19	1.68	1.85	0.18	0.44	0.61	—	6,148	6,148	0.39	0.70	4.91	6,372
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.18	0.27	1.44	1.61	0.01	0.03	0.31	0.34	0.03	0.08	0.11	—	1,018	1,018	0.07	0.12	0.81	1,055
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2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	3.22	2.21	28.1	21.0	0.09	0.90	5.20	6.10	0.84	1.96	2.79	—	12,875	12,875	0.84	1.50	23.4	13,365
2025	1.63	19.8	12.2	15.8	0.06	0.30	2.69	2.99	0.28	0.70	0.98	—	9,578	9,578	0.59	1.04	17.4	9,921
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.65	0.98	14.6	13.1	0.07	0.32	4.86	5.15	0.30	0.96	1.23	—	9,606	9,606	0.64	1.06	0.45	9,938
2025	1.91	19.8	17.0	17.9	0.08	0.35	3.30	3.65	0.33	0.88	1.21	—	12,441	12,441	0.83	1.49	0.59	12,908
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.91	0.57	7.79	7.25	0.03	0.19	1.39	1.58	0.18	0.38	0.56	—	4,852	4,852	0.31	0.54	3.69	5,023
2025	0.97	1.50	7.92	8.83	0.04	0.17	1.68	1.85	0.16	0.44	0.61	—	6,148	6,148	0.39	0.70	4.91	6,372
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.17	0.10	1.42	1.32	0.01	0.03	0.25	0.29	0.03	0.07	0.10	—	803	803	0.05	0.09	0.61	832
2025	0.18	0.27	1.44	1.61	0.01	0.03	0.31	0.34	0.03	0.08	0.11	—	1,018	1,018	0.07	0.12	0.81	1,055

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.65	7.47	0.02	0.23	—	0.23	0.22	—	0.22	—	2,477	2,477	0.10	0.02	—	2,485
Demolition	—	—	—	—	—	—	1.49	1.49	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.14	0.14	< 0.005	0.01	0.01	—	3.08	3.08	< 0.005	< 0.005	< 0.005	3.26
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.7	40.7	< 0.005	< 0.005	—	40.9
Demolition	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.74	6.74	< 0.005	< 0.005	—	6.76
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.04	0.04	0.52	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	129	129	< 0.005	< 0.005	0.01	130
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	130	130	0.01	0.02	0.01	135
Hauling	0.46	0.09	5.83	2.48	0.03	0.06	1.16	1.21	0.06	0.32	0.38	—	4,543	4,543	0.36	0.72	0.25	4,768
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.15	2.15	< 0.005	< 0.005	< 0.005	2.18
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.13	2.13	< 0.005	< 0.005	< 0.005	2.22
Hauling	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74.7	74.7	0.01	0.01	0.07	78.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.36	0.36	< 0.005	< 0.005	< 0.005	0.36
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.4	12.4	< 0.005	< 0.005	0.01	13.0

3.3. Demolition (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.81	6.29	6.25	0.03	0.21	—	0.21	0.20	—	0.20	—	3,051	3,051	0.12	0.02	—	3,061
Demolition	—	—	—	—	—	—	3.11	3.11	—	0.47	0.47	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	41.8	41.8	< 0.005	< 0.005	—	41.9
Demolition	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.92	6.92	< 0.005	< 0.005	—	6.94
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.39	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	96.7	96.7	< 0.005	< 0.005	0.01	97.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.65	0.13	8.29	3.52	0.04	0.08	1.65	1.73	0.08	0.46	0.54	—	6,459	6,459	0.52	1.03	0.35	6,779
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.34	1.34	< 0.005	< 0.005	< 0.005	1.36
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	88.5	88.5	0.01	0.01	0.08	92.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.6	14.6	< 0.005	< 0.005	0.01	15.4

3.5. Demolition (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.81	6.29	6.25	0.03	0.21	—	0.21	0.20	—	0.20	—	3,051	3,051	0.12	0.02	—	3,061	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.15	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	75.2	75.2	< 0.005	< 0.005	—	75.5	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.5	12.5	< 0.005	< 0.005	—	12.5	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.39	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	96.7	96.7	< 0.005	< 0.005	0.01	97.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.42	2.42	< 0.005	< 0.005	< 0.005	2.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.20	1.92	< 0.005	0.05	—	0.05	0.05	—	0.05	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.14	0.14	< 0.005	0.01	0.01	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.23

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.78	4.78	< 0.005	< 0.005	—	4.79
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.79	0.79	< 0.005	< 0.005	—	0.79
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.9	33.9	< 0.005	< 0.005	0.14	34.4
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	130	130	0.01	0.02	0.35	135
Hauling	0.40	0.08	4.94	2.16	0.03	0.05	1.02	1.07	0.05	0.29	0.33	—	3,985	3,985	0.32	0.63	8.32	4,191
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.54
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.13	2.13	< 0.005	< 0.005	< 0.005	2.22
Hauling	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	65.5	65.5	0.01	0.01	0.06	68.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.01	11.4

3.9. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	18.3	16.1	0.04	0.80	—	0.80	0.74	—	0.74	—	3,887	3,887	0.16	0.03	—	3,900
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.29	0.29	< 0.005	0.03	0.03	—	4.52	4.52	< 0.005	< 0.005	0.01	4.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.60	0.53	< 0.005	0.03	—	0.03	0.02	—	0.02	—	128	128	0.01	< 0.005	—	128

Dust From Material Movement:	—	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—	
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.01	0.01	0.11	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.2	21.2	< 0.005	< 0.005	—	21.2
Dust From Material Movement:	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.03
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.04	0.04	0.04	0.60	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	< 0.005	< 0.005	0.56	138
Vendor	0.02	0.01	0.21	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	194	194	0.01	0.03	0.52	203
Hauling	0.78	0.16	9.50	4.15	0.05	0.10	1.95	2.05	0.10	0.55	0.64	—	7,663	7,663	0.61	1.22	16.0	8,058
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.30	4.30	< 0.005	< 0.005	0.01	4.36
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.39	6.39	< 0.005	< 0.005	0.01	6.67
Hauling	0.03	0.01	0.33	0.14	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	252	252	0.02	0.04	0.23	265
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.71	0.71	< 0.005	< 0.005	< 0.005	0.72
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.06	1.06	< 0.005	< 0.005	< 0.005	1.10

Hauling	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	41.7	41.7	< 0.005	0.01	0.04	43.8
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3.11. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	0.55	5.13	6.16	0.01	0.24	—	0.24	0.22	—	0.22	—	954	954	0.04	0.01	—	957
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.14	0.14	< 0.005	0.01	0.01	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.1	13.1	< 0.005	< 0.005	—	13.1
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.16	2.16	< 0.005	< 0.005	—	2.17

Dust From Material Movement:	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	102	102	< 0.005	< 0.005	0.42	103
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	130	130	0.01	0.02	0.35	135
Hauling	0.31	0.06	3.78	1.65	0.02	0.04	0.78	0.82	0.04	0.22	0.26	—	3,051	3,051	0.24	0.49	6.37	3,208
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.34	1.34	< 0.005	< 0.005	< 0.005	1.36
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.78	1.78	< 0.005	< 0.005	< 0.005	1.85
Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	41.8	41.8	< 0.005	0.01	0.04	43.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.31
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.27

3.13. Building Construction (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.60	5.44	6.09	0.02	0.24	—	0.24	0.22	—	0.22	—	2,019	2,019	0.08	0.02	—	2,026
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.60	5.44	6.09	0.02	0.24	—	0.24	0.22	—	0.22	—	2,019	2,019	0.08	0.02	—	2,026
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.25	2.27	2.54	0.01	0.10	—	0.10	0.09	—	0.09	—	841	841	0.03	0.01	—	844
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.41	0.46	< 0.005	0.02	—	0.02	0.02	—	0.02	—	139	139	0.01	< 0.005	—	140
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.26	0.27	4.19	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	944	944	0.01	0.03	3.87	958
Vendor	0.04	0.01	0.47	0.23	< 0.005	0.01	0.12	0.12	< 0.005	0.03	0.04	—	441	441	0.02	0.06	1.19	461
Hauling	0.59	0.12	7.21	3.15	0.04	0.07	1.48	1.56	0.07	0.42	0.49	—	5,818	5,818	0.46	0.93	12.2	6,118

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.26	0.31	3.61	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	898	898	0.01	0.03	0.10	909
Vendor	0.04	0.01	0.49	0.24	< 0.005	0.01	0.12	0.12	< 0.005	0.03	0.04	—	441	441	0.02	0.06	0.03	460
Hauling	0.58	0.12	7.47	3.17	0.04	0.07	1.48	1.56	0.07	0.42	0.49	—	5,820	5,820	0.46	0.93	0.32	6,108
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.13	1.58	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	380	380	0.01	0.01	0.70	385
Vendor	0.02	< 0.005	0.20	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	184	184	0.01	0.03	0.21	192
Hauling	0.24	0.05	3.15	1.32	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,426	2,426	0.19	0.39	2.18	2,548
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.29	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	62.8	62.8	< 0.005	< 0.005	0.12	63.7
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.4	30.4	< 0.005	< 0.005	0.04	31.7
Hauling	0.04	0.01	0.57	0.24	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	402	402	0.03	0.06	0.36	422

3.15. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	3.55	6.02	0.02	0.17	—	0.17	0.16	—	0.16	—	2,018	2,018	0.08	0.02	—	2,025
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.56	0.47	3.55	6.02	0.02	0.17	—	0.17	0.16	—	0.16	—	2,018	2,018	0.08	0.02	—	2,025
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.31	2.35	4.00	0.01	0.12	—	0.12	0.11	—	0.11	—	1,339	1,339	0.05	0.01	—	1,343
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.43	0.73	< 0.005	0.02	—	0.02	0.02	—	0.02	—	222	222	0.01	< 0.005	—	222
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.25	0.24	3.90	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	925	925	0.01	0.03	3.50	938
Vendor	0.03	0.01	0.45	0.22	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	434	434	0.02	0.06	1.18	454
Hauling	0.55	0.12	6.95	3.08	0.04	0.07	1.48	1.56	0.07	0.42	0.49	—	5,719	5,719	0.46	0.93	12.0	6,018
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.25	0.27	3.37	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	880	880	0.01	0.03	0.09	890
Vendor	0.03	0.01	0.47	0.23	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	434	434	0.02	0.06	0.03	453
Hauling	0.55	0.12	7.21	3.10	0.04	0.07	1.48	1.56	0.07	0.42	0.49	—	5,721	5,721	0.46	0.93	0.31	6,008
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.18	2.34	0.00	0.00	0.60	0.60	0.00	0.14	0.14	—	592	592	0.01	0.02	1.00	600
Vendor	0.02	0.01	0.31	0.15	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	288	288	0.02	0.04	0.34	301

Hauling	0.36	0.08	4.84	2.05	0.03	0.05	0.97	1.02	0.05	0.27	0.32	—	3,794	3,794	0.31	0.61	3.46	3,988
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.43	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	98.0	98.0	< 0.005	< 0.005	0.17	99.3
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.7	47.7	< 0.005	0.01	0.06	49.8
Hauling	0.07	0.01	0.88	0.37	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	628	628	0.05	0.10	0.57	660

3.17. Paving (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	2.15	4.28	0.01	0.08	—	0.08	0.08	—	0.08	—	747	747	0.03	0.01	—	749
Paving	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.5	24.5	< 0.005	< 0.005	—	24.6
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.06	4.06	< 0.005	< 0.005	—	4.08

Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.30	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	67.8	67.8	< 0.005	< 0.005	0.28	68.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.29	0.06	3.52	1.54	0.02	0.04	0.72	0.76	0.04	0.20	0.24	—	2,838	2,838	0.23	0.45	5.93	2,984
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.15	2.15	< 0.005	< 0.005	< 0.005	2.18
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	93.3	93.3	0.01	0.01	0.08	98.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.36	0.36	< 0.005	< 0.005	< 0.005	0.36
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.5	15.5	< 0.005	< 0.005	0.01	16.2

3.19. Architectural Coating (2025) - Unmitigated

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

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

Off-Road Equipment	0.14	0.12	0.94	1.79	< 0.005	0.05	—	0.05	0.04	—	0.04	—	298	298	0.01	< 0.005	—	299
Architectural Coatings	—	18.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.94	1.79	< 0.005	0.05	—	0.05	0.04	—	0.04	—	298	298	0.01	< 0.005	—	299
Architectural Coatings	—	18.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.7	14.7	< 0.005	< 0.005	—	14.7
Architectural Coatings	—	0.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.43	2.43	< 0.005	< 0.005	—	2.44
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.78	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	185	185	< 0.005	0.01	0.70	188
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.67	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	176	176	< 0.005	0.01	0.02	178
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.80	8.80	< 0.005	< 0.005	0.01	8.91
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.46	1.46	< 0.005	< 0.005	< 0.005	1.48
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Trenching (2024) - Unmitigated

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

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

Off-Road Equipment	0.52	0.44	3.83	5.63	0.02	0.14	—	0.14	0.13	—	0.13	—	1,644	1,644	0.07	0.01	—	1,650
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.14	0.14	< 0.005	0.01	0.01	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.0	45.0	< 0.005	< 0.005	—	45.2
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.46	7.46	< 0.005	< 0.005	—	7.48
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	102	102	< 0.005	< 0.005	0.42	103
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	130	130	0.01	0.02	0.35	135
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.69	2.69	< 0.005	< 0.005	< 0.005	2.72
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.55	3.55	< 0.005	< 0.005	< 0.005	3.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.45
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.59	0.59	< 0.005	< 0.005	< 0.005	0.61
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Trenching (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.96	3.41	< 0.005	0.07	—	0.07	0.06	—	0.06	—	535	535	0.02	< 0.005	—	537
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.6	17.6	< 0.005	< 0.005	—	17.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.91	2.91	< 0.005	< 0.005	—	2.92
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	63.2	63.2	< 0.005	< 0.005	0.01	63.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.27	0.06	3.52	1.51	0.02	0.04	0.72	0.76	0.04	0.20	0.24	—	2,791	2,791	0.23	0.45	0.15	2,931
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.11	2.11	< 0.005	< 0.005	< 0.005	2.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	91.7	91.7	0.01	0.01	0.08	96.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.2	15.2	< 0.005	< 0.005	0.01	16.0

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Asphalt Demolition	Demolition	3/1/2024	3/9/2024	5.00	6.00	—
Building Demolition	Demolition	3/12/2024	3/18/2024	5.00	5.00	—
Building Debris Onsite Processing/Recycling	Demolition	3/19/2024	3/29/2024	5.00	9.00	—
Site Preparation	Site Preparation	4/2/2024	4/9/2024	5.00	6.00	—
Rough Grading	Grading	4/12/2024	4/29/2024	5.00	12.0	—

Fine Grading	Grading	5/3/2024	5/9/2024	5.00	5.00	—
Building Construction	Building Construction	6/2/2024	12/5/2025	5.00	395	—
Paving	Paving	9/6/2024	9/23/2024	5.00	12.0	—
Architectural Coating	Architectural Coating	9/27/2025	10/22/2025	5.00	18.0	—
Utility Trenching	Trenching	5/11/2024	5/25/2024	5.00	10.0	—
Finishing/Landscaping	Trenching	11/13/2025	11/28/2025	5.00	12.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Asphalt Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Asphalt Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Asphalt Demolition	Excavators	Diesel	Average	1.00	8.00	314	0.38
Asphalt Demolition	Rubber Tired Loaders	Diesel	Average	1.00	8.00	249	0.36
Building Demolition	Excavators	Diesel	Average	2.00	8.00	314	0.38
Building Demolition	Rubber Tired Loaders	Diesel	Average	1.00	8.00	249	0.36
Building Debris Onsite Processing/Recycling	Excavators	Diesel	Average	2.00	8.00	314	0.38
Building Debris Onsite Processing/Recycling	Rubber Tired Loaders	Diesel	Average	1.00	8.00	249	0.36
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Rough Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Rough Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Rough Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	249	0.36
Rough Grading	Excavators	Diesel	Average	1.00	8.00	314	0.38
Fine Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Fine Grading	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Fine Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Building Construction	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	160	0.40
Building Construction	Paving Equipment	Diesel	Average	1.00	8.00	425	0.36
Paving	Rollers	Diesel	Average	1.00	8.00	142	0.38
Paving	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Architectural Coating	Forklifts	Diesel	Average	1.00	8.00	160	0.20
Utility Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Utility Trenching	Excavators	Diesel	Average	1.00	8.00	314	0.38
Utility Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Finishing/Landscaping	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Asphalt Demolition	—	—	—	—
Asphalt Demolition	Worker	10.0	18.5	LDA,LDT1,LDT2
Asphalt Demolition	Vendor	4.00	10.2	HHDT,MHDT
Asphalt Demolition	Hauling	64.0	20.0	HHDT
Asphalt Demolition	Onsite truck	1.00	0.41	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	2.50	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	10.2	HHDT,MHDT
Site Preparation	Hauling	56.2	20.0	HHDT

Site Preparation	Onsite truck	1.00	0.41	HHDT
Rough Grading	—	—	—	—
Rough Grading	Worker	10.0	18.5	LDA,LDT1,LDT2
Rough Grading	Vendor	6.00	10.2	HHDT,MHDT
Rough Grading	Hauling	108	20.0	HHDT
Rough Grading	Onsite truck	1.00	0.83	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	69.7	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	13.6	10.2	HHDT,MHDT
Building Construction	Hauling	82.0	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	5.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	40.0	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	13.9	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Building Demolition	—	—	—	—
Building Demolition	Worker	7.50	18.5	LDA,LDT1,LDT2
Building Demolition	Vendor	—	10.2	HHDT,MHDT
Building Demolition	Hauling	91.0	20.0	HHDT
Building Demolition	Onsite truck	—	—	HHDT
Building Debris Onsite Processing/Recycling	—	—	—	—

Building Debris Onsite Processing/Recycling	Worker	7.50	18.5	LDA,LDT1,LDT2
Building Debris Onsite Processing/Recycling	Vendor	—	10.2	HHDT,MHDT
Building Debris Onsite Processing/Recycling	Hauling	0.00	20.0	HHDT
Building Debris Onsite Processing/Recycling	Onsite truck	—	—	HHDT
Fine Grading	—	—	—	—
Fine Grading	Worker	7.50	18.5	LDA,LDT1,LDT2
Fine Grading	Vendor	4.00	10.2	HHDT,MHDT
Fine Grading	Hauling	43.0	20.0	HHDT
Fine Grading	Onsite truck	1.00	0.41	HHDT
Utility Trenching	—	—	—	—
Utility Trenching	Worker	7.50	18.5	LDA,LDT1,LDT2
Utility Trenching	Vendor	4.00	10.2	HHDT,MHDT
Utility Trenching	Hauling	0.00	20.0	HHDT
Utility Trenching	Onsite truck	1.00	0.41	HHDT
Finishing/Landscaping	—	—	—	—
Finishing/Landscaping	Worker	5.00	18.5	LDA,LDT1,LDT2
Finishing/Landscaping	Vendor	—	10.2	HHDT,MHDT
Finishing/Landscaping	Hauling	40.0	20.0	HHDT
Finishing/Landscaping	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%

Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	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)
Architectural Coating	278,828	92,943	1,451	161	2,059

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Asphalt Demolition	0.00	0.00	0.00	648	—
Building Demolition	0.00	0.00	0.00	1,126	—
Site Preparation	—	2,690	0.00	0.00	—
Rough Grading	—	6,500	12.0	0.00	—
Fine Grading	—	110	2.50	0.00	—
Paving	0.00	0.00	0.00	0.00	0.93

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
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Apartments Mid Rise	—	0%
Enclosed Parking with Elevator	0.74	100%
Parking Lot	0.03	100%
Other Non-Asphalt Surfaces	0.16	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	349	0.03	< 0.005
2025	0.00	349	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Land Use	Based on Applicant info., see PD
Construction: Construction Phases	Based on applicant info., see assumptions file
Construction: Off-Road Equipment	Based on equipment provided by applicant, see assumptions file
Construction: Trips and VMT	Based on applicant info., included calculated water truck trips as vendor trips, calculated onsite water truck trip length, see assumptions file
Construction: Architectural Coatings	Condition of Approval to use low VOC paint for interior, residential exterior paint VOC content provided by applicant, see assumptions file,
Operations: Vehicle Data	ITE Trip rates, see assumptions file
Operations: Fleet Mix	Adjusted fleet mix, see assumptions file
Operations: Architectural Coatings	South Coast AQMD's super compliant paint (<10g/L), see assumptions file
Operations: Water and Waste Water	assume 100% aerobic treatment, see assumptions file
Operations: Energy Use	Provided by applicant, see assumptions file
Operations: Hearths	assume no fireplaces or wood stoves
Construction: Demolition	Assume building debris onsite process/reprocessing will not be hauled offsite, see assumptions file

Operations: Solid Waste

Net decrease in solid waste generation, see assumptions file

CalEEMod Operations Model

CNB-24 Custom Report

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5.15.1. Unmitigated

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	CNB-24
Construction Start Date	3/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.6
Location	1401 Quail St, Newport Beach, CA 92660, USA
County	Orange
City	Newport Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5995
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
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Apartments Mid Rise	78.0	Dwelling Unit	0.78	137,693	13,690	—	232	—
Enclosed Parking with Elevator	32.1	1000sqft	0.74	32,150	0.00	—	—	—
Parking Lot	1.14	1000sqft	0.03	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	7.17	1000sqft	0.16	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.83	4.72	0.86	16.4	0.02	0.03	2.47	2.51	0.03	0.63	0.66	0.02	2,893	2,893	0.14	0.07	10.1	2,926
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.16	4.09	0.87	9.74	0.02	0.03	2.47	2.50	0.03	0.63	0.65	0.02	2,765	2,765	0.15	0.07	1.22	2,791
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.08	4.03	0.60	9.32	0.01	0.03	1.31	1.34	0.03	0.33	0.36	0.02	1,736	1,736	0.10	0.04	3.06	1,754
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.20	0.74	0.11	1.70	< 0.005	< 0.005	0.24	0.24	< 0.005	0.06	0.07	< 0.005	287	287	0.02	0.01	0.51	290

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	1.14	1.04	0.58	10.5	0.02	0.01	2.47	2.49	0.01	0.63	0.64	—	2,356	2,356	0.10	0.06	9.08	2,387
Area	0.67	3.67	0.06	5.81	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	17.6	17.6	< 0.005	< 0.005	—	17.6
Energy	0.03	0.01	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	—	519	519	0.05	< 0.005	—	521
Water	—	—	—	—	—	—	—	—	—	—	—	0.02	0.05	0.07	< 0.005	< 0.005	—	0.08
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.99	0.99
Total	1.83	4.72	0.86	16.4	0.02	0.03	2.47	2.51	0.03	0.63	0.66	0.02	2,893	2,893	0.14	0.07	10.1	2,926
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.14	1.04	0.65	9.65	0.02	0.01	2.47	2.49	0.01	0.63	0.64	—	2,246	2,246	0.10	0.07	0.24	2,269
Area	0.00	3.04	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.03	0.01	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	—	519	519	0.05	< 0.005	—	521
Water	—	—	—	—	—	—	—	—	—	—	—	0.02	0.05	0.07	< 0.005	< 0.005	—	0.08
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.99	0.99
Total	1.16	4.09	0.87	9.74	0.02	0.03	2.47	2.50	0.03	0.63	0.65	0.02	2,765	2,765	0.15	0.07	1.22	2,791
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.60	0.54	0.35	5.24	0.01	0.01	1.31	1.32	0.01	0.33	0.34	—	1,205	1,205	0.05	0.04	2.08	1,219
Area	0.46	3.47	0.04	3.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	12.0	12.0	< 0.005	< 0.005	—	12.1
Energy	0.03	0.01	0.22	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	—	519	519	0.05	< 0.005	—	521
Water	—	—	—	—	—	—	—	—	—	—	—	0.02	0.05	0.07	< 0.005	< 0.005	—	0.08

Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.99	0.99
Total	1.08	4.03	0.60	9.32	0.01	0.03	1.31	1.34	0.03	0.33	0.36	0.02	1,736	1,736	0.10	0.04	3.06	1,754
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.10	0.06	0.96	< 0.005	< 0.005	0.24	0.24	< 0.005	0.06	0.06	—	199	199	0.01	0.01	0.34	202
Area	0.08	0.63	0.01	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.99	1.99	< 0.005	< 0.005	—	2.00
Energy	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	85.9	85.9	0.01	< 0.005	—	86.3
Water	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.01	0.01	< 0.005	< 0.005	—	0.01
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.16
Total	0.20	0.74	0.11	1.70	< 0.005	< 0.005	0.24	0.24	< 0.005	0.06	0.07	< 0.005	287	287	0.02	0.01	0.51	290

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	1.14	1.04	0.58	10.5	0.02	0.01	2.47	2.49	0.01	0.63	0.64	—	2,356	2,356	0.10	0.06	9.08	2,387
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-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	0.00
Total	1.14	1.04	0.58	10.5	0.02	0.01	2.47	2.49	0.01	0.63	0.64	—	2,356	2,356	0.10	0.06	9.08	2,387	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	1.14	1.04	0.65	9.65	0.02	0.01	2.47	2.49	0.01	0.63	0.64	—	2,246	2,246	0.10	0.07	0.24	2,269	
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-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	0.00
Total	1.14	1.04	0.65	9.65	0.02	0.01	2.47	2.49	0.01	0.63	0.64	—	2,246	2,246	0.10	0.07	0.24	2,269	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.11	0.10	0.06	0.96	< 0.005	< 0.005	0.24	0.24	< 0.005	0.06	0.06	—	199	199	0.01	0.01	0.34	202	
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-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	0.00

Total	0.11	0.10	0.06	0.96	< 0.005	< 0.005	0.24	0.24	< 0.005	0.06	0.06	—	199	199	0.01	0.01	0.34	202
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4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	241	241	0.02	< 0.005	—	243
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	241	241	0.02	< 0.005	—	243
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	241	241	0.02	< 0.005	—	243
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	241	241	0.02	< 0.005	—	243
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	< 0.005	< 0.005	—	40.2
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	< 0.005	< 0.005	—	40.2

4.3. Area Emissions by Source

4.3.2. 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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	2.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.67	0.63	0.06	5.81	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.6	17.6	< 0.005	< 0.005	—	17.6
Total	0.67	3.67	0.06	5.81	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	17.6	17.6	< 0.005	< 0.005	—	17.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	2.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	3.04	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	0.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.08	0.08	0.01	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.99	1.99	< 0.005	< 0.005	—	2.00
Total	0.08	0.63	0.01	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.99	1.99	< 0.005	< 0.005	—	2.00

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	0.02	0.05	0.07	< 0.005	< 0.005	—	0.08
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.02	0.05	0.07	< 0.005	< 0.005	—	0.08
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	0.02	0.05	0.07	< 0.005	< 0.005	—	0.08
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	0.02	0.05	0.07	< 0.005	< 0.005	—	0.08
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.01	0.01	< 0.005	< 0.005	—	0.01
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.01	0.01	< 0.005	< 0.005	—	0.01

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.99	0.99
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.99	0.99
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.99	0.99
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.99	0.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.16

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
Apartments Mid Rise	110	306	278	59,096	1,271	3,533	3,208	682,784
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

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)
278828	92,943	1,451	161	2,059

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)	CO ₂	CH ₄	N ₂ O	Natural Gas (kBTU/yr)
Apartments Mid Rise	252,720	349	0.0330	0.0040	866,334
Enclosed Parking with Elevator	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	8,205	102
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	0.00	—
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	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
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

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
—	—	—	—	—	—	—

5.17. User Defined

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Land Use	Based on Applicant info., see PD
Construction: Construction Phases	Based on applicant info., see assumptions file
Construction: Off-Road Equipment	Based on equipment provided by applicant, see assumptions file
Construction: Trips and VMT	Based on applicant info., included calculated water truck trips as vendor trips, calculated onsite water truck trip length, see assumptions file
Construction: Architectural Coatings	Condition of Approval to use low VOC paint for interior, residential exterior paint VOC content provided by applicant, see assumptions file,
Operations: Vehicle Data	ITE Trip rates, see assumptions file
Operations: Fleet Mix	Adjusted fleet mix, see assumptions file
Operations: Architectural Coatings	South Coast AQMD's super compliant paint (<10g/L), see assumptions file
Operations: Water and Waste Water	assume 100% aerobic treatment, see assumptions file
Operations: Energy Use	Provided by applicant, accounts for solar/renewable electricity, see assumptions file
Operations: Hearths	assume no fireplaces or wood stoves
Construction: Demolition	Assume building debris onsite process/reprocessing will not be hauled offsite, see assumptions file
Operations: Solid Waste	Net decrease in solid waste generation, see assumptions file

Emissions Worksheet

Regional Construction Emissions Worksheet - Unmitigated with SC AQ-2:

3.1 Asphalt Demolition (2024)

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite							
	Off-Road Equipment	0.74	6.65	7.47	0.02	0.23	0.22
	Demolition					1.49	0.23
	Onsite truck	0.01	0.02	0.01	0.01	0.14	0.01
	Total	0.75	6.67	7.48	0.03	1.86	0.46
Offsite							
	Worker	0.04	0.04	0.52	0.00	0.13	0.03
	Vendor	0.01	0.14	0.07	0.01	0.04	0.01
	Hauling	0.09	5.83	2.48	0.03	1.21	0.38
	Total	0.14	6.01	3.07	0.04	1.38	0.42
TOTAL		0.88	12.68	10.55	0.06	3.24	0.88

3.3 Building Demolition (2024)

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite							
	Off-Road Equipment	0.81	6.29	6.25	0.03	0.21	0.20
	Demolition					3.11	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.81	6.29	6.25	0.03	3.32	0.67
Offsite							
	Worker	0.03	0.03	0.39	0.00	0.10	0.02
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.13	8.29	3.52	0.04	1.73	0.54
	Total	0.16	8.32	3.91	0.04	1.83	0.56
TOTAL		0.97	14.61	10.16	0.07	5.15	1.23

3.5 Building Demo Debris Onsite Processing/Recycling (2024)

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite							
	Off-Road Equipment	0.81	6.29	6.25	0.03	0.21	0.20
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.81	6.29	6.25	0.03	0.21	0.20
Offsite							
	Worker	0.03	0.03	0.39	0.00	0.10	0.02
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.03	0.03	0.39	0.00	0.10	0.02
TOTAL		0.84	6.32	6.64	0.03	0.31	0.22

3.7 Site Preparation(2024)

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite							
	Off-Road Equipment	0.12	1.20	1.92	0.01	0.05	0.05
	Dust from Material Movement					0.01	0.01
	Onsite truck	0.01	0.02	0.01	0.01	0.14	0.01
	Total	0.13	1.22	1.93	0.01	0.20	0.07
Offsite							
	Worker	0.01	0.01	0.15	0.00	0.03	0.01
	Vendor	0.01	0.14	0.07	0.01	0.04	0.01
	Hauling	0.08	4.94	2.16	0.03	1.07	0.33
	Total	0.10	5.09	2.38	0.04	1.14	0.35
TOTAL		0.22	6.31	4.31	0.05	1.34	0.42

3.9 Rough Grading (2024)							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Off-Road Equipment	2.00	18.30	16.10	0.04	0.80	0.74
	Dust from Material Movement					2.77	1.34
	Onsite truck	0.01	0.02	0.01	0.01	0.29	0.03
	Total	2.01	18.32	16.11	0.05	3.86	2.11
Offsite	Worker	0.04	0.04	0.60	0.00	0.13	0.03
	Vendor	0.01	0.21	0.10	< 0.005	0.05	0.02
	Hauling	0.16	9.50	4.15	0.05	2.05	0.64
	Total	0.21	9.75	4.85	0.05	2.23	0.69
TOTAL		2.22	28.07	20.96	0.10	6.09	2.80

3.11 Fine Grading (2024)							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Off-Road Equipment	0.55	5.13	6.16	0.01	0.24	0.22
	Dust from Material Movement					0.21	0.02
	Onsite truck	0.01	0.02	0.01	0.01	0.14	0.01
	Total	0.56	5.15	6.17	0.02	0.59	0.25
Offsite	Worker	0.03	0.03	0.45	0.00	0.10	0.02
	Vendor	0.01	0.14	0.07	0.01	0.04	0.01
	Hauling	0.06	3.78	1.65	0.02	0.82	0.26
	Total	0.10	3.95	2.17	0.03	0.96	0.29
TOTAL		0.65	9.10	8.34	0.04	1.55	0.54

3.13 Building Construction (2024)							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Off-Road Equipment	0.60	5.44	6.09	0.02	0.24	0.22
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.60	5.44	6.09	0.02	0.24	0.22
Offsite	Worker	0.26	0.27	4.19	0.00	0.91	0.21
	Vendor	0.01	0.47	0.23	0.01	0.12	0.04
	Hauling	0.12	7.21	3.15	0.04	1.56	0.49
	Total	0.39	7.95	7.57	0.05	2.59	0.74
TOTAL		0.99	13.39	13.66	0.07	2.83	0.96

3.15 Building Construction (2025)							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Off-Road Equipment	0.47	3.55	6.02	0.02	0.17	0.16
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.47	3.55	6.02	0.02	0.17	0.16
Offsite	Worker	0.25	0.24	3.90	0.00	0.91	0.21
	Vendor	0.01	0.45	0.22	0.01	0.12	0.04
	Hauling	0.12	6.95	3.08	0.04	1.56	0.49
	Total	0.38	7.64	7.20	0.05	2.59	0.74
TOTAL		0.85	11.19	13.22	0.07	2.76	0.90

3.17 Paving (2024)							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Off-Road Equipment	0.20	2.15	4.28	0.01	0.08	0.08
	Paving	0.17					
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.37	2.15	4.28	0.01	0.08	0.08
Offsite	Worker	0.02	0.02	0.30	0.00	0.07	0.02
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.06	3.52	1.54	0.02	0.76	0.24
	Total	0.08	3.54	1.84	0.02	0.83	0.26
TOTAL		0.45	5.69	6.12	0.03	0.91	0.34

3.19 Architectural Coating (2025)

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite							
	Off-Road Equipment	0.12	0.94	1.79	0.01	0.05	0.04
	Architectural Coating	18.80					
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	18.92	0.94	1.79	0.01	0.05	0.04
Offsite							
	Worker	0.05	0.05	0.78	0.00	0.18	0.04
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.05	0.05	0.78	0.00	0.18	0.04
TOTAL		18.97	0.99	2.57	0.01	0.23	0.08

3.21 Trenching (2025) - Utility Trenching

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite							
	Off-Road Equipment	0.44	3.83	5.63	0.02	0.14	0.13
	Onsite truck	0.01	0.02	0.01	0.01	0.14	0.01
	Total	0.45	3.85	5.64	0.03	0.28	0.14
Offsite							
	Worker	0.03	0.03	0.45	0.00	0.10	0.02
	Vendor	0.01	0.14	0.07	0.01	0.04	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.04	0.17	0.52	0.01	0.14	0.03
TOTAL		0.48	4.02	6.16	0.03	0.42	0.17

3.23 Trenching (2025) - Finishing and Landscaping

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite							
	Off-Road Equipment	0.17	1.96	3.41	0.01	0.07	0.06
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.17	1.96	3.41	0.01	0.07	0.06
Offsite							
	Worker	0.02	0.02	0.24	0.00	0.07	0.02
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.06	3.52	1.51	0.02	0.76	0.24
	Total	0.08	3.54	1.75	0.02	0.83	0.26
TOTAL		0.25	5.50	5.16	0.03	0.90	0.32

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
<i>Asphalt Demolition</i>	1	13	11	0	3	1
<i>Building Demolition</i>	1	15	10	0	5	1
<i>Building Debris Onsite Processing/Recycling</i>	1	6	7	0	0	0
<i>Site Preparation</i>	0	6	4	0	1	0
<i>Rough Grading</i>	2	28	21	0	6	3
<i>Fine Grading</i>	1	9	8	0	2	1
<i>Utility Trenching</i>	0	4	6	0	0	0
<i>Building Construction (2024)</i>	1	13	14	0	3	1
<i>Building Construction and Paving</i>	1	19	20	0	4	1
<i>Building Construction (2025)</i>	1	13	14	0	3	1
<i>Building Construction and Architectural Coating (2025)</i>	20	12	16	0	3	1
<i>Building Construction and Finishing/Landscaping</i>	1	17	18	0	4	1
MAX DAILY	20	28	21	0	6	3
Regional Thresholds	75	100	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

Construction LST Worksheet:

3.1 Asphalt Demolition (2024)

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	6.65	7.47	0.23	0.22
	Demolition			1.49	0.23
	Onsite truck	0.02	0.01	0.14	0.01
	Total	6.67	7.48	1.86	0.46
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		6.67	7.48	1.86	0.46

3.3 Building Demolition (2024)

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	6.29	6.25	0.21	0.20
	Demolition			3.11	0.47
	Onsite truck	0.00	0.00	0.00	0.00
	Total	6.29	6.25	3.32	0.67
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		6.29	6.25	3.32	0.67

3.5 Building Demo Debris Onsite Processing/Recycling (2024)

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	6.29	6.25	0.21	0.20
	Onsite truck	0.00	0.00	0.00	0.00
	Total	6.29	6.25	0.21	0.20
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		6.29	6.25	0.21	0.20

3.7 Site Preparation(2024)

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	1.20	1.92	0.05	0.05
	Dust from Material Movement			0.01	0.01
	Onsite truck	0.02	0.01	0.14	0.01
	Total	1.22	1.93	0.20	0.07
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00

TOTAL	1.22	1.93	0.20	0.07
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3.9 Rough Grading (2024)

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	18.30	16.10	0.80	0.74
	Dust from Material Movement			2.77	1.34
	Onsite truck	0.02	0.01	0.29	0.03
	Total	18.32	16.11	3.86	2.11
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		18.32	16.11	3.86	2.11

3.11 Fine Grading (2024)

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	5.13	6.16	0.24	0.22
	Dust from Material Movement			0.21	0.02
	Onsite truck	0.02	0.01	0.14	0.01
	Total	5.15	6.17	0.59	0.25
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		5.15	6.17	0.59	0.25

3.13 Building Construction (2024)

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	5.44	6.09	0.24	0.22
	Onsite truck	0.00	0.00	0.00	0.00
	Total	5.44	6.09	0.24	0.22
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		5.44	6.09	0.24	0.22

3.15 Building Construction (2025)

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	3.55	6.02	0.17	0.16
	Offroad Equipment	0.00	0.00	0.00	0.00
	Total	3.55	6.02	0.17	0.16
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		3.55	6.02	0.17	0.16

3.17 Paving (2024)

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	2.15	4.28	0.08	0.08
	Paving				
	Onsite truck	0.00	0.00	0.00	0.00
	Total	2.15	4.28	0.08	0.08
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		2.15	4.28	0.08	0.08

3.19 Architectural Coating (2025)

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	0.94	1.79	0.05	0.04
	Architectural Coating				
	Onsite truck	0.00	0.00	0.00	0.00
	Total	0.94	1.79	0.05	0.04
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		0.94	1.79	0.05	0.04

3.21 Trenching (2025) - Utility Trenching

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	3.83	5.63	0.14	0.13
	Onsite truck	0.02	0.01	0.14	0.01
	Total	3.85	5.64	0.28	0.14
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		3.85	5.64	0.28	0.14

3.23 Trenching (2025) - Finishing and Landscaping

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	1.96	3.41	0.07	0.06
	Onsite truck	0.00	0.00	0.00	0.00
	Total	1.96	3.41	0.07	0.06
Offsite					
	Worker				
	Vendor				
	Hauling				
	Total	0.00	0.00	0.00	0.00
TOTAL		1.96	3.41	0.07	0.06

	NOx	CO	PM10 Total	PM2.5 Total
Asphalt Demolition	7	7	1.86	0.46
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no
Building Demolition	6	6	3.32	0.67
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no
Building Debris Onsite Processing/Recycling	6	6	0.21	0.20
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no
Site Preparation	1	2	0.20	0.07
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no
Rough Grading	18	16	3.86	2.11
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no
Fine Grading	5	6	0.59	0.25
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no
Utility Trenching	4	6	0.28	0.14
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no
Building Construction (2024)	5	6	0.24	0.22
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no
Building Construction and Paving	8	10	0.32	0.30
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no
Building Construction and Architectural Coating (2025)	4	8	0.22	0.20
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no
Building Construction and Finishing/Landscaping	6	9	0.24	0.22
≤ 1.00 Acre LST	92	647	31.68	11.26
Exceeds LST?	no	no	no	no

Regional Operation Emissions Worksheet:

¹ CalEEMod, Version 2022.1.1.14

² Conservative analysis due to total increase, rather than net increase, in electricity and area sources modeled and smaller existing building square footage modeled. At the time of this analysis, 78 residential units and 22,536 square feet for the existing building was used.

Proposed Project

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	1.0	0.6	10.5	0.0	2.5	0.6
Area	3.7	0.1	5.8	0.0	0.0	0.0
Energy	0.0	0.2	0.1	0.0	0.0	0.0
Total	4.7	0.9	16.4	0.0	2.5	0.7

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	1.0	0.7	9.7	0.0	2.5	0.6
Area	3.0	0.0	0.0	0.0	0.0	0.0
Energy	0.0	0.2	0.1	0.0	0.0	0.0
Total	4.1	0.9	9.7	0.0	2.5	0.7

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	1	1	11	0	2	1
Area	4	0	6	0	0	0
Energy	0	0	0	0	0	0
Total	5	1	16	0	3	1

Regional Thresholds (lb/day)	55	55	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

GHG Emissions Inventory

Proposed Project Buildout

Construction¹

	MTCO ₂ e
2024	832
2025	1,055
Total Construction	1,887
30-Year Amortization²	63

¹ CalEEMod, Version 2022.1.1.14

² Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2).

Net Operations¹

	MTCO ₂ e/Year ²	
	Operations	%
Mobile	202	57%
Area	2	1%
Energy	86	24%
Water	0	0%
Solid Waste	0	0%
Refrigerants	0	0%
30-Year Construction Amortization	63	18%
	353	100%

South Coast AQMD Bright-Line Screening Threshold **3,000**
Exceed Threshold? No

¹ CalEEMod, Version 2022.1.1.14. A total of 2,200 units are allowed in the Airport Area, and the project would involve a redistribution of these future units, not a net increase.

² MTCO₂e=metric tons of carbon dioxide equivalent. Conservative estimate since at the time of the analysis 78 residential units, 22,536 square feet was used for the existing building, and total usage for area sources, energy, and refrigerants were used. In addition, modeled solid waste as 0 tons/year due to net decrease compared to existing conditions as conservative estimate.

LST Worksheets

Construction Localized Significance Thresholds: Asphalt Demolition

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
18	0.50	25	82	309	1015	1.69	
Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25						
NOx	92	Tractors	0.5	0.0625	8	1	0.5
CO	647	Graders	0.5	0.0625			0
PM10	83.53	Dozers	0.5	0.0625			0
PM2.5	41.69	Scrapers	1	0.125			0
						Acres	0.50
	Acres	25	50			200	500
NOx	1	92	93			140	219
	1	92	93			140	219
		92	93			140	219
CO	1	647	738			2096	6841
	1	647	738			2096	6841
		647	738			2096	6841
PM10	1	4	13			54	135
	1	4	13			54	135
		4	13			54	135
PM2.5	1	3	5			22	76
	1	3	5			22	76
		3	5			22	76
North Coastal Orange County							
0.50 Acres							
	25	50	100			200	500
NOx	92	93	108			140	219
CO	647	738	1090			2096	6841
PM10	4	13	27			54	135
PM2.5	3	5	9			22	76

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Demolition/Recycling/Reprocessing

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
18	0.00	25	82	309	1015	1.69

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25						
NOx	92	Tractors	0.5		0.0625	0	
CO	647	Graders	0.5		0.0625	0	
PM10	83.53	Dozers	0.5		0.0625	0	
PM2.5	41.69	Scrapers	1		0.125	0	
					Acres	0.00	
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
	1	92	93		108	140	219
		92	93		108	140	219
CO	1	647	738		1090	2096	6841
	1	647	738		1090	2096	6841
		647	738		1090	2096	6841
PM10	1	4	13		27	54	135
	1	4	13		27	54	135
		4	13		27	54	135
PM2.5	1	3	5		9	22	76
	1	3	5		9	22	76
		3	5		9	22	76
North Coastal Orange County							
	0.00 Acres						
	Acres	25	50		100	200	500
NOx	92	93	108		140	219	
CO	647	738	1090		2096	6841	
PM10	4	13	27		54	135	
PM2.5	3	5	9		22	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
18	0.50	25	82	309	1015	1.69

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25						
NOx	92	Tractors	0.5	0.0625	8	1	
CO	647	Graders	0.5	0.0625		0	
PM10	83.53	Dozers	0.5	0.0625		0	
PM2.5	41.69	Scrapers	1	0.125		0	
					Acres	0.50	
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
	1	92	93		108	140	219
		92	93		108	140	219
CO	1	647	738		1090	2096	6841
	1	647	738		1090	2096	6841
		647	738		1090	2096	6841
PM10	1	4	13		27	54	135
	1	4	13		27	54	135
		4	13		27	54	135
PM2.5	1	3	5		9	22	76
	1	3	5		9	22	76
		3	5		9	22	76
North Coastal Orange County							
	0.50 Acres						
	Acres	25	50		100	200	500
NOx	92	93	108		140	219	
CO	647	738	1090		2096	6841	
PM10	4	13	27		54	135	
PM2.5	3	5	9		22	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Rough Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
18	1.00	25	82	309	1015	1.69

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25					
NOx	92	Tractors	0.5	0.0625		0
CO	647	Graders	0.5	0.0625	8	1
PM10	83.53	Dozers	0.5	0.0625	8	1
PM2.5	41.69	Scrapers	1	0.125		0
					Acres	1.00
	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
	1	92	93	108	140	219
	1	92	93	108	140	219
CO	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
PM10	1	4	13	27	54	135
	1	4	13	27	54	135
	1	4	13	27	54	135
PM2.5	1	3	5	9	22	76
	1	3	5	9	22	76
	1	3	5	9	22	76
North Coastal Orange County						
1.00 Acres						
	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
CO	1	647	738	1090	2096	6841
PM10	1	4	13	27	54	135
PM2.5	1	3	5	9	22	76

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Fine Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
18	0.50	25	82	309	1015	1.69

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25						
NOx	92	Tractors	0.5	0.0625		0	
CO	647	Graders	0.5	0.0625	8	1	
PM10	83.53	Dozers	0.5	0.0625		0	
PM2.5	41.69	Scrapers	1	0.125		0	
					Acres	0.50	
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
	1	92	93		108	140	219
		92	93		108	140	219
CO	1	647	738		1090	2096	6841
	1	647	738		1090	2096	6841
		647	738		1090	2096	6841
PM10	1	4	13		27	54	135
	1	4	13		27	54	135
		4	13		27	54	135
PM2.5	1	3	5		9	22	76
	1	3	5		9	22	76
		3	5		9	22	76
North Coastal Orange County							
	0.50 Acres						
	Acres	25	50		100	200	500
NOx	92	93	108		140	219	
CO	647	738	1090		2096	6841	
PM10	4	13	27		54	135	
PM2.5	3	5	9		22	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Utility Trenching

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
18	0.50	25	82	309	1015	1.69

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25					
NOx	92	Tractors	0.5	0.0625	8	1
CO	647	Graders	0.5	0.0625		0
PM10	83.53	Dozers	0.5	0.0625		0
PM2.5	41.69	Scrapers	1	0.125		0
					Acres	0.50
	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
	1	92	93	108	140	219
	1	92	93	108	140	219
CO	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
PM10	1	4	13	27	54	135
	1	4	13	27	54	135
	1	4	13	27	54	135
PM2.5	1	3	5	9	22	76
	1	3	5	9	22	76
	1	3	5	9	22	76
North Coastal Orange County						
0.50 Acres						
	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
CO	1	647	738	1090	2096	6841
PM10	1	4	13	27	54	135
PM2.5	1	3	5	9	22	76

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
18	0.00	25	82	309	1015	1.69

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25						
NOx	92	Tractors	0.5		0.0625	0	
CO	647	Graders	0.5		0.0625	0	
PM10	83.53	Dozers	0.5		0.0625	0	
PM2.5	41.69	Scrapers	1		0.125	0	
					Acres	0.00	
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
	1	92	93		108	140	219
		92	93		108	140	219
CO	1	647	738		1090	2096	6841
	1	647	738		1090	2096	6841
		647	738		1090	2096	6841
PM10	1	4	13		27	54	135
	1	4	13		27	54	135
		4	13		27	54	135
PM2.5	1	3	5		9	22	76
	1	3	5		9	22	76
		3	5		9	22	76
North Coastal Orange County							
	0.00 Acres						
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
CO	1	647	738		1090	2096	6841
PM10	1	4	13		27	54	135
PM2.5	1	3	5		9	22	76

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction and Paving

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
18	0.00	25	82	309	1015	1.69

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25						
NOx	92	Tractors	0.5		0.0625	0	
CO	647	Graders	0.5		0.0625	0	
PM10	83.53	Dozers	0.5		0.0625	0	
PM2.5	41.69	Scrapers	1		0.125	0	
					Acres	0.00	
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
	1	92	93		108	140	219
		92	93		108	140	219
CO	1	647	738		1090	2096	6841
	1	647	738		1090	2096	6841
		647	738		1090	2096	6841
PM10	1	4	13		27	54	135
	1	4	13		27	54	135
		4	13		27	54	135
PM2.5	1	3	5		9	22	76
	1	3	5		9	22	76
		3	5		9	22	76
North Coastal Orange County							
	0.00 Acres						
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
CO	1	647	738		1090	2096	6841
PM10	1	4	13		27	54	135
PM2.5	1	3	5		9	22	76

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction and Architectural Coating

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
18	0.00	25	82	309	1015	1.69

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25						
NOx	92	Tractors	0.5		0.0625	0	
CO	647	Graders	0.5		0.0625	0	
PM10	83.53	Dozers	0.5		0.0625	0	
PM2.5	41.69	Scrapers	1		0.125	0	
					Acres	0.00	
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
	1	92	93		108	140	219
		92	93		108	140	219
CO	1	647	738		1090	2096	6841
	1	647	738		1090	2096	6841
		647	738		1090	2096	6841
PM10	1	4	13		27	54	135
	1	4	13		27	54	135
		4	13		27	54	135
PM2.5	1	3	5		9	22	76
	1	3	5		9	22	76
		3	5		9	22	76
North Coastal Orange County							
	0.00 Acres						
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
CO	1	647	738		1090	2096	6841
PM10	1	4	13		27	54	135
PM2.5	1	3	5		9	22	76

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction and Finishing/Landscaping

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
18	0.50	25	82	309	1015	1.69

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25						
NOx	92	Tractors	0.5	0.0625	8	1	
CO	647	Graders	0.5	0.0625		0	
PM10	83.53	Dozers	0.5	0.0625		0	
PM2.5	41.69	Scrapers	1	0.125		0	
					Acres	0.50	
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
	1	92	93		108	140	219
		92	93		108	140	219
CO	1	647	738		1090	2096	6841
	1	647	738		1090	2096	6841
		647	738		1090	2096	6841
PM10	1	4	13		27	54	135
	1	4	13		27	54	135
		4	13		27	54	135
PM2.5	1	3	5		9	22	76
	1	3	5		9	22	76
		3	5		9	22	76
North Coastal Orange County							
	0.50 Acres						
	Acres	25	50		100	200	500
NOx	1	92	93		108	140	219
CO	1	647	738		1090	2096	6841
PM10	1	4	13		27	54	135
PM2.5	1	3	5		9	22	76

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008