
Appendix E

Reduced Project Alternative
California Emissions Estimator Model (CalEEMod)

B-2 Hotel GHG Construction and Operation Reduced Project Alternative - 75 rooms Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	B-2 Hotel GHG Construction and Operation Reduced Project Alternative - 75 rooms
Construction Start Date	10/6/2025
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	18.2
Location	33.784339912522455, -117.91552871705632
County	Orange
City	Garden Grove
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5829
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

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
Hotel	75.0	Room	3.72	62,585	39,711	0.00	—	—

Enclosed Parking with Elevator	80.0	Space	0.00	45,253	0.00	0.00	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	107	16.4	37.6	0.06	7.28	2.05	12,984	0.42	0.94	32.2	13,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	107	39.1	36.0	0.15	8.61	3.59	21,099	1.57	2.93	1.00	22,010
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.9	11.8	24.8	0.04	5.03	1.42	8,942	0.30	0.66	9.70	9,155
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.99	2.16	4.53	0.01	0.92	0.26	1,480	0.05	0.11	1.61	1,516
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	150	55.0	—	—	—	—	—
Unmit.	Yes	No	No	No	No	No	—	—	—	—	Yes
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	150	55.0	—	—	—	—	—
Unmit.	No	No	No	No	No	No	—	—	—	—	Yes

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	2.59	16.4	37.6	0.06	7.28	2.05	12,984	0.42	0.94	32.2	13,308
2027	107	1.21	5.34	< 0.005	1.15	0.29	1,332	0.02	0.06	3.70	1,354
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2025	2.74	39.1	36.0	0.15	8.61	3.59	21,099	1.57	2.93	1.00	22,010
2026	2.58	16.8	34.6	0.06	7.28	2.05	12,724	0.43	0.94	0.83	13,016
2027	107	6.16	9.85	0.01	1.15	0.30	1,643	0.06	0.06	0.10	1,651
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2025	0.43	4.89	5.24	0.02	1.34	0.56	2,404	0.14	0.26	2.05	2,486
2026	1.81	11.8	24.8	0.04	5.03	1.42	8,942	0.30	0.66	9.70	9,155
2027	10.9	0.78	1.54	< 0.005	0.17	0.06	305	0.01	0.01	0.21	308
Annual	—	—	—	—	—	—	—	—	—	—	—
2025	0.08	0.89	0.96	< 0.005	0.25	0.10	398	0.02	0.04	0.34	412
2026	0.33	2.16	4.53	0.01	0.92	0.26	1,480	0.05	0.11	1.61	1,516
2027	1.99	0.14	0.28	< 0.005	0.03	0.01	50.5	< 0.005	< 0.005	0.03	51.0

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.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.28	28.4	30.6	0.07	3.38	1.64	9,854	4.88	0.16	105	10,128

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.50	28.4	25.4	0.07	3.37	1.64	9,742	4.88	0.16	98.0	10,011
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.82	5.21	15.5	0.04	2.59	0.87	7,120	4.78	0.14	101	7,383
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.70	0.95	2.83	0.01	0.47	0.16	1,179	0.79	0.02	16.7	1,222
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	1,400
Unmit.	—	—	—	—	—	—	—	—	—	—	No

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.35	0.81	9.39	0.02	2.34	0.60	2,436	0.12	0.10	6.80	2,475
Area	2.27	0.04	4.69	< 0.005	0.01	0.01	19.3	< 0.005	< 0.005	—	19.4
Energy	0.16	2.95	2.48	0.02	0.22	0.22	4,514	0.41	0.02	—	4,529
Water	—	—	—	—	—	—	36.4	0.85	0.02	—	63.6
Waste	—	—	—	—	—	—	34.0	3.39	0.00	—	119
Refrig.	—	—	—	—	—	—	—	—	—	97.8	97.8
Stationary	5.50	24.6	14.0	0.03	0.81	0.81	2,814	0.11	0.02	0.00	2,823
Total	9.28	28.4	30.6	0.07	3.38	1.64	9,854	4.88	0.16	105	10,128
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.34	0.88	8.90	0.02	2.34	0.60	2,344	0.12	0.10	0.18	2,378
Area	1.50	—	—	—	—	—	—	—	—	—	—

Energy	0.16	2.95	2.48	0.02	0.22	0.22	4,514	0.41	0.02	—	4,529
Water	—	—	—	—	—	—	36.4	0.85	0.02	—	63.6
Waste	—	—	—	—	—	—	34.0	3.39	0.00	—	119
Refrig.	—	—	—	—	—	—	—	—	—	97.8	97.8
Stationary	5.50	24.6	14.0	0.03	0.81	0.81	2,814	0.11	0.02	0.00	2,823
Total	8.50	28.4	25.4	0.07	3.37	1.64	9,742	4.88	0.16	98.0	10,011
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.33	0.88	9.07	0.02	2.31	0.60	2,369	0.12	0.10	2.94	2,406
Area	2.03	0.03	3.21	< 0.005	0.01	< 0.005	13.2	< 0.005	< 0.005	—	13.3
Energy	0.16	2.95	2.48	0.02	0.22	0.22	4,514	0.41	0.02	—	4,529
Water	—	—	—	—	—	—	36.4	0.85	0.02	—	63.6
Waste	—	—	—	—	—	—	34.0	3.39	0.00	—	119
Refrig.	—	—	—	—	—	—	—	—	—	97.8	97.8
Stationary	0.30	1.35	0.77	< 0.005	0.04	0.04	154	0.01	< 0.005	0.00	155
Total	3.82	5.21	15.5	0.04	2.59	0.87	7,120	4.78	0.14	101	7,383
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.16	1.65	< 0.005	0.42	0.11	392	0.02	0.02	0.49	398
Area	0.37	< 0.005	0.59	< 0.005	< 0.005	< 0.005	2.19	< 0.005	< 0.005	—	2.19
Energy	0.03	0.54	0.45	< 0.005	0.04	0.04	747	0.07	< 0.005	—	750
Water	—	—	—	—	—	—	6.02	0.14	< 0.005	—	10.5
Waste	—	—	—	—	—	—	5.62	0.56	0.00	—	19.7
Refrig.	—	—	—	—	—	—	—	—	—	16.2	16.2
Stationary	0.06	0.25	0.14	< 0.005	0.01	0.01	25.5	< 0.005	< 0.005	0.00	25.6
Total	0.70	0.95	2.83	0.01	0.47	0.16	1,179	0.79	0.02	16.7	1,222

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.24	21.5	20.8	0.03	0.92	0.85	3,627	0.15	0.03	—	3,639
Dust From Material Movement	—	—	—	—	5.11	2.63	—	—	—	—	—
Onsite truck	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	0.12	1.18	1.14	< 0.005	0.05	0.05	199	0.01	< 0.005	—	199
Dust From Material Movement	—	—	—	—	0.28	0.14	—	—	—	—	—
Onsite truck	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	0.02	0.21	0.21	< 0.005	0.01	0.01	32.9	< 0.005	< 0.005	—	33.0
Dust From Material Movement	—	—	—	—	0.05	0.03	—	—	—	—	—
Onsite truck	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	0.06	0.07	0.87	0.00	0.24	0.06	227	< 0.005	0.01	0.02	230

Vendor	0.01	0.21	0.10	< 0.005	0.05	0.02	191	0.01	0.03	0.01	200
Hauling	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	0.05	0.00	0.01	< 0.005	12.6	< 0.005	< 0.005	0.02	12.8
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	10.5	< 0.005	< 0.005	0.01	10.9
Hauling	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	0.01	0.00	< 0.005	< 0.005	2.09	< 0.005	< 0.005	< 0.005	2.12
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.74	< 0.005	< 0.005	< 0.005	1.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.77	16.5	18.1	0.03	0.73	0.67	2,985	0.12	0.02	—	2,995
Dust From Material Movement	—	—	—	—	2.79	1.34	—	—	—	—	—
Onsite truck	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	0.12	1.13	1.24	< 0.005	0.05	0.05	204	0.01	< 0.005	—	205
Dust From Material Movement	—	—	—	—	0.19	0.09	—	—	—	—	—

Onsite truck	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	0.02	0.21	0.23	< 0.005	0.01	0.01	33.9	< 0.005	< 0.005	—	34.0
Dust From Material Movement	—	—	—	—	0.03	0.02	—	—	—	—	—
Onsite truck	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	0.06	0.06	0.77	0.00	0.21	0.05	202	< 0.005	0.01	0.02	204
Vendor	0.01	0.21	0.10	< 0.005	0.05	0.02	191	0.01	0.03	0.01	200
Hauling	0.36	22.3	9.61	0.12	4.82	1.51	17,720	1.43	2.87	0.97	18,611
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.01	< 0.005	14.0	< 0.005	< 0.005	0.02	14.2
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	13.1	< 0.005	< 0.005	0.02	13.7
Hauling	0.03	1.55	0.65	0.01	0.33	0.10	1,213	0.10	0.20	1.11	1,276
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	2.32	< 0.005	< 0.005	< 0.005	2.35
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.17	< 0.005	< 0.005	< 0.005	2.27
Hauling	< 0.005	0.28	0.12	< 0.005	0.06	0.02	201	0.02	0.03	0.18	211

3.5. 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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—

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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	0.40	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.06	0.59	0.74	< 0.005	0.02	0.02	136	0.01	< 0.005	—	137
Onsite truck	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	0.01	0.11	0.14	< 0.005	< 0.005	< 0.005	22.5	< 0.005	< 0.005	—	22.6
Onsite truck	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	1.47	1.65	20.2	0.00	5.46	1.28	5,280	0.07	0.20	0.55	5,342
Vendor	0.14	5.64	2.77	0.04	1.44	0.42	5,231	0.29	0.73	0.37	5,455
Hauling	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	0.08	0.09	1.20	0.00	0.31	0.07	304	< 0.005	0.01	0.51	308
Vendor	0.01	0.32	0.16	< 0.005	0.08	0.02	297	0.02	0.04	0.35	310
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.22	0.00	0.06	0.01	50.3	< 0.005	< 0.005	0.09	51.0
Vendor	< 0.005	0.06	0.03	< 0.005	0.01	< 0.005	49.1	< 0.005	0.01	0.06	51.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	0.35	2,397	0.10	0.02	—	2,405
Onsite truck	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	1.07	9.85	13.0	0.02	0.38	0.35	2,397	0.10	0.02	—	2,405
Onsite truck	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	0.75	6.87	9.03	0.02	0.26	0.24	1,670	0.07	0.01	—	1,676
Onsite truck	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	0.14	1.25	1.65	< 0.005	0.05	0.04	277	0.01	< 0.005	—	277
Onsite truck	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	1.41	1.27	22.0	0.00	5.46	1.28	5,443	0.06	0.20	18.9	5,523
Vendor	0.11	5.24	2.62	0.04	1.44	0.42	5,144	0.26	0.73	13.3	5,380
Hauling	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	1.41	1.46	19.0	0.00	5.46	1.28	5,180	0.07	0.20	0.49	5,242

Vendor	0.10	5.45	2.68	0.04	1.44	0.42	5,146	0.26	0.73	0.34	5,369
Hauling	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	0.98	1.02	13.8	0.00	3.76	0.88	3,658	0.05	0.14	5.69	3,706
Vendor	0.07	3.82	1.85	0.03	0.99	0.29	3,584	0.18	0.51	4.00	3,743
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.19	2.51	0.00	0.69	0.16	606	0.01	0.02	0.94	614
Vendor	0.01	0.70	0.34	< 0.005	0.18	0.05	593	0.03	0.08	0.66	620
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	6.23	8.81	0.01	0.26	0.24	1,350	0.05	0.01	—	1,355
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.11	0.16	< 0.005	< 0.005	< 0.005	23.8	< 0.005	< 0.005	—	23.9
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.02	0.03	< 0.005	< 0.005	< 0.005	3.94	< 0.005	< 0.005	—	3.95
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.08	0.08	1.09	0.00	0.31	0.07	297	< 0.005	0.01	0.03	301
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.01	< 0.005	5.31	< 0.005	< 0.005	0.01	5.38
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.88	< 0.005	< 0.005	< 0.005	0.89
Vendor	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

3.11. Paving (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

B-2 Hotel GHG Construction and Operation Reduced Project Alternative - 75 rooms Detailed Report, 9/16/2025

Off-Road Equipment	0.66	6.09	8.83	0.01	0.24	0.22	1,350	0.05	0.01	—	1,355
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.07	0.64	0.93	< 0.005	0.03	0.02	143	0.01	< 0.005	—	143
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.01	0.12	0.17	< 0.005	< 0.005	< 0.005	23.6	< 0.005	< 0.005	—	23.7
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.07	0.07	1.02	0.00	0.31	0.07	292	< 0.005	0.01	0.03	296
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.03	0.01	31.3	< 0.005	< 0.005	0.04	31.7
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.01	< 0.005	5.19	< 0.005	< 0.005	0.01	5.25
Vendor	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

3.13. Architectural Coating (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.83	1.13	< 0.005	0.02	0.02	134	0.01	< 0.005	—	134
Architectural Coatings	106	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.11	0.83	1.13	< 0.005	0.02	0.02	134	0.01	< 0.005	—	134
Architectural Coatings	106	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.08	0.11	< 0.005	< 0.005	< 0.005	13.5	< 0.005	< 0.005	—	13.6
Architectural Coatings	10.8	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.24	< 0.005	< 0.005	—	2.25
Architectural Coatings	1.97	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.24	0.25	4.15	0.00	1.10	0.26	1,075	0.01	0.04	3.41	1,091
Vendor	< 0.005	0.12	0.06	< 0.005	0.04	0.01	123	0.01	0.02	0.29	129
Hauling	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	0.24	0.26	3.57	0.00	1.10	0.26	1,023	0.01	0.04	0.09	1,036
Vendor	< 0.005	0.13	0.06	< 0.005	0.04	0.01	123	0.01	0.02	0.01	128
Hauling	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	0.02	0.03	0.38	0.00	0.11	0.03	105	< 0.005	< 0.005	0.15	107
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	12.5	< 0.005	< 0.005	0.01	13.0
Hauling	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	0.01	0.07	0.00	0.02	< 0.005	17.4	< 0.005	< 0.005	0.02	17.6
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.07	< 0.005	< 0.005	< 0.005	2.16
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	831	0.08	0.01	—	836
Enclosed Parking with Elevator	—	—	—	—	—	—	158	0.02	< 0.005	—	159
Total	—	—	—	—	—	—	989	0.09	0.01	—	995
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	831	0.08	0.01	—	836
Enclosed Parking with Elevator	—	—	—	—	—	—	158	0.02	< 0.005	—	159
Total	—	—	—	—	—	—	989	0.09	0.01	—	995
Annual	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	138	0.01	< 0.005	—	138
Enclosed Parking with Elevator	—	—	—	—	—	—	26.2	< 0.005	< 0.005	—	26.4
Total	—	—	—	—	—	—	164	0.02	< 0.005	—	165

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.16	2.95	2.48	0.02	0.22	0.22	3,525	0.31	0.01	—	3,535
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.16	2.95	2.48	0.02	0.22	0.22	3,525	0.31	0.01	—	3,535

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.16	2.95	2.48	0.02	0.22	0.22	3,525	0.31	0.01	—	3,535
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.16	2.95	2.48	0.02	0.22	0.22	3,525	0.31	0.01	—	3,535
Annual	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.03	0.54	0.45	< 0.005	0.04	0.04	584	0.05	< 0.005	—	585
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.54	0.45	< 0.005	0.04	0.04	584	0.05	< 0.005	—	585

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.34	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.16	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.77	0.04	4.69	< 0.005	0.01	0.01	19.3	< 0.005	< 0.005	—	19.4
Total	2.27	0.04	4.69	< 0.005	0.01	0.01	19.3	< 0.005	< 0.005	—	19.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.34	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.16	—	—	—	—	—	—	—	—	—	—
Total	1.50	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.24	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10	< 0.005	0.59	< 0.005	< 0.005	< 0.005	2.19	< 0.005	< 0.005	—	2.19
Total	0.37	< 0.005	0.59	< 0.005	< 0.005	< 0.005	2.19	< 0.005	< 0.005	—	2.19

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	36.4	0.85	0.02	—	63.6
Enclosed Parking with Elevator	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	36.4	0.85	0.02	—	63.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	36.4	0.85	0.02	—	63.6
Enclosed Parking with Elevator	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	36.4	0.85	0.02	—	63.6
Annual	—	—	—	—	—	—	—	—	—	—	—

Hotel	—	—	—	—	—	—	6.02	0.14	< 0.005	—	10.5
Enclosed Parking with Elevator	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	6.02	0.14	< 0.005	—	10.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	34.0	3.39	0.00	—	119
Enclosed Parking with Elevator	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	34.0	3.39	0.00	—	119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	34.0	3.39	0.00	—	119
Enclosed Parking with Elevator	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	34.0	3.39	0.00	—	119
Annual	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	5.62	0.56	0.00	—	19.7
Enclosed Parking with Elevator	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	5.62	0.56	0.00	—	19.7

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	97.8	97.8
Total	—	—	—	—	—	—	—	—	—	97.8	97.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	97.8	97.8
Total	—	—	—	—	—	—	—	—	—	97.8	97.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	16.2	16.2
Total	—	—	—	—	—	—	—	—	—	16.2	16.2

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—
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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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	5.50	24.6	14.0	0.03	0.81	0.81	2,814	0.11	0.02	0.00	2,823
Total	5.50	24.6	14.0	0.03	0.81	0.81	2,814	0.11	0.02	0.00	2,823
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	5.50	24.6	14.0	0.03	0.81	0.81	2,814	0.11	0.02	0.00	2,823
Total	5.50	24.6	14.0	0.03	0.81	0.81	2,814	0.11	0.02	0.00	2,823
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.25	0.14	< 0.005	0.01	0.01	25.5	< 0.005	< 0.005	0.00	25.6
Total	0.06	0.25	0.14	< 0.005	0.01	0.01	25.5	< 0.005	< 0.005	0.00	25.6

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	10/1/2025	10/28/2025	5.00	20.0	—
Grading	Grading	10/29/2025	12/2/2025	5.00	25.0	—
Building Construction	Building Construction	12/3/2025	12/22/2026	5.00	275	—
Paving	Paving	12/23/2026	2/23/2027	5.00	45.0	—
Architectural Coating	Architectural Coating	2/24/2027	4/15/2027	5.00	37.0	—

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
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Plate Compactors	Diesel	Average	2.00	3.00	8.00	0.43
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29

Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	6.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Grading	—	—	—	—
Grading	Worker	16.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	6.00	10.2	HHDT,MHDT
Grading	Hauling	254	20.0	HHDT
Grading	Onsite truck	0.00	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	418	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	164	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	24.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	84.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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	0.00	0.00	625,850	208,617	14,968

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 (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	0.00	60,720	30.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Hotel	0.00	0%
Enclosed Parking with Elevator	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	346	0.03	< 0.005
2027	0.00	346	0.03	< 0.005
2025	0.00	349	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VT/Weekday	VT/Saturday	VT/Sunday	VT/Year
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Total all Land Uses	489	489	489	178,595	3,287	3,287	3,287	1,199,792
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5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	93,878	31,293	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBtu/yr)
Hotel	875,782	346	0.0330	0.0040	10,998,419
Enclosed Parking with Elevator	167,047	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Hotel	4,295,689	77,200
Enclosed Parking with Elevator	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Hotel	63.0	—
Enclosed Parking with Elevator	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
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	2.00	40.0	1,676	0.73

5.16.2. Process Boilers

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

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	10.1	annual days of extreme heat
Extreme Precipitation	3.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A

Flooding	1	0	0	N/A
Drought	3	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	5	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	1	1	1	2
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	3	1	1	3
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	5	1	1	4

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	48.5
AQ-PM	75.5
AQ-DPM	45.1
Drinking Water	65.2
Lead Risk Housing	90.5
Pesticides	0.00
Toxic Releases	89.3
Traffic	45.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	26.2
Haz Waste Facilities/Generators	46.4
Impaired Water Bodies	0.00
Solid Waste	71.2
Sensitive Population	—
Asthma	37.2
Cardio-vascular	47.5
Low Birth Weights	90.0
Socioeconomic Factor Indicators	—
Education	68.8
Housing	76.3
Linguistic	73.7
Poverty	72.4
Unemployment	73.4

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	16.59181317
Employed	35.60887976
Median HI	37.26421147
Education	—
Bachelor's or higher	23.94456564
High school enrollment	100
Preschool enrollment	26.45964327
Transportation	—
Auto Access	78.96830489
Active commuting	70.88412678
Social	—
2-parent households	29.42384191
Voting	9.251892724
Neighborhood	—
Alcohol availability	26.66495573
Park access	37.07173104
Retail density	61.60657
Supermarket access	85.24316694
Tree canopy	22.57153856
Housing	—
Homeownership	27.65302194
Housing habitability	14.32054408
Low-inc homeowner severe housing cost burden	23.23880405
Low-inc renter severe housing cost burden	29.00038496

Uncrowded housing	8.879763891
Health Outcomes	—
Insured adults	12.98601309
Arthritis	97.6
Asthma ER Admissions	62.7
High Blood Pressure	97.9
Cancer (excluding skin)	98.5
Asthma	30.0
Coronary Heart Disease	96.5
Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	88.2
Life Expectancy at Birth	31.3
Cognitively Disabled	68.5
Physically Disabled	95.1
Heart Attack ER Admissions	48.9
Mental Health Not Good	24.7
Chronic Kidney Disease	93.4
Obesity	51.2
Pedestrian Injuries	70.7
Physical Health Not Good	49.9
Stroke	93.8
Health Risk Behaviors	—
Binge Drinking	3.5
Current Smoker	17.2
No Leisure Time for Physical Activity	36.8
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	7.8
Elderly	67.6
English Speaking	22.2
Foreign-born	84.2
Outdoor Workers	45.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	36.6
Traffic Density	48.7
Traffic Access	87.4
Other Indices	—
Hardship	82.1
Other Decision Support	—
2016 Voting	53.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	75.0
Healthy Places Index Score for Project Location (b)	26.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project description. 75 room hotel with amenities on 3.72 acres. 85% reduction in original hotel project.
Construction: Construction Phases	no demo. Building construction work days reduced by 50% of days, Arch coating construction days reduced by 50%
Construction: Architectural Coatings	arch coating
Operations: Water and Waste Water	85% reduction from Project based on WSA of total 94 acre-feet per year.
Operations: Vehicle Data	Based on VMT study. All trips assigned to hotel use.
Construction: Trips and VMT	Adjusted numbers to be even numbered trips.
Construction: Paving	Estimated acreage for paved area from 528 parking lot spaces and 80% of site that is impervious
Construction: Off-Road Equipment	Client added plate compactors.
Construction: Dust From Material Movement	Based on Project Description of 60,720 cy of export
Operations: Energy Use	All reduced by 85%.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information.
Operations: Fleet Mix	10 truck per day limit
Operations: Hearths	—
Operations: Solid Waste	Swimming pool solid waste is assumed to be included with hotel. 0.84 tons/unit/year retained, unit size reduced to 75.