

Appendix C

Technical Appendix for Air Quality and
Greenhouse Gas Emissions

Hollywood and Wilcox

Draft EIR

Technical Appendix for Air Quality and Greenhouse Gas Emissions

- Appendix C-1: Air Quality Worksheets and Modeling Output Files
- Appendix C-2: Greenhouse Gas Worksheets and Modeling Output Files

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Appendix C-1

Air Quality Worksheets and Modeling Output Files

- Appendix C-1.1: Construction Emissions Inventory (Daily Emissions)
 - CalEEMod Outputs – Construction (Regional and Localized)
 - Regional
 - Onsite
 - Localized Significance Threshold (LST) Calculation Worksheet

- Appendix C-1.2: Operational Emissions Inventory
 - CalEEMod Outputs – Operations (Baseline and Project)
 - Baseline (Existing)
 - Baseline (Buildout Year)
 - Buildout

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Appendix C-1

Air Quality Worksheets and Modeling Output Files

- Appendix C-1.1: Construction Emissions Inventory (Daily Emissions)
 - CalEEMod Outputs – Construction (Regional and Localized)
 - Regional
 - Onsite
 - Localized Significance Threshold (LST) Calculation Worksheet

AQ SUMMARY OF EMISSIONS**Construction Emissions (Unmitigated)**

Regional (Daily) Unmitigated	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
2021	8	68	64	<1	11	4
2022	16	52	67	<1	11	4
MAX	16	68	67	<1	11	4
Threshold	75	100	550	150	150	55
Difference	(59)	(32)	(483)	(149)	(139)	(51)
Impact	No	No	No	No	No	No

Localized (Daily) Unmitigated	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
2021	5	33	38	<1	2	2
2022	12	34	42	<1	2	2
MAX		34	42	<1	2	2
Threshold		52	827		6	4
Difference		(18)	(785)		(4)	(2)
Impact		No	No		No	No

Hollywood and Wilcox (Construction) - South Coast Air Basin, Winter

Hollywood and Wilcox (Construction)
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.58	1000sqft	0.00	3,580.00	0
Enclosed Parking with Elevator	168.00	Space	0.00	89,680.00	0
Unenclosed Parking Structure	252.00	Space	0.00	96,380.00	0
High Turnover (Sit Down Restaurant)	3.20	1000sqft	0.00	3,200.00	0
Apartments High Rise	260.00	Dwelling Unit	1.40	261,092.00	744
Strip Mall	11.02	1000sqft	0.00	11,020.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment -
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Demolition - see Construction Assumptions
- Grading - see Construction Assumptions
- Architectural Coating -
- Vehicle Trips -
- Construction Off-road Equipment Mitigation -
- Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	11164	10080
tblAreaCoating	Area_Residential_Exterior	176237	175500
tblAreaCoating	Area_Residential_Interior	528711	526500
tblConstructionPhase	NumDays	10.00	260.00
tblConstructionPhase	NumDays	200.00	39.00

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripNumber	165.00	800.00
tblTripsAndVMT	HaulingTripNumber	7,250.00	8,586.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	61.00	242.00
tblTripsAndVMT	VendorTripNumber	61.00	100.00
tblTripsAndVMT	VendorTripNumber	61.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	15.00	24.00
tblTripsAndVMT	WorkerTripNumber	28.00	100.00
tblTripsAndVMT	WorkerTripNumber	271.00	300.00
tblTripsAndVMT	WorkerTripNumber	271.00	500.00
tblTripsAndVMT	WorkerTripNumber	271.00	250.00
tblTripsAndVMT	WorkerTripNumber	54.00	50.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	8.3956	68.3403	64.0827	0.1964	9.1152	1.8398	10.9549	2.4257	1.7880	4.2138						20,519.0507
2022	15.5408	51.5260	66.9852	0.1807	9.6933	1.7648	11.4580	2.5795	1.7196	4.2991						17,884.6042
Maximum	15.5408	68.3403	66.9852	0.1964	9.6933	1.8398	11.4580	2.5795	1.7880	4.2991						20,519.0507

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	8.3956	68.3403	64.0827	0.1964	9.1152	1.8398	10.9549	2.4257	1.7880	4.2138						20,519.0507

2022	15.5408	51.5260	66.9852	0.1807	9.6933	1.7648	11.4580	2.5795	1.7196	4.2991							17,884.60 42
Maximum	15.5408	68.3403	66.9852	0.1964	9.6933	1.8398	11.4580	2.5795	1.7880	4.2991							20,519.05 07

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/31/2021	5	21	
2	Shoring / Excavation	Grading	2/1/2021	5/24/2021	5	81	
3	Foundation / Below Grade Parking	Building Construction	5/25/2021	7/16/2021	5	39	
4	Tower Construction	Building Construction	7/17/2021	4/15/2022	5	195	
5	Interior Finishes	Building Construction	11/1/2021	12/31/2022	5	305	
6	Architectural Coating	Architectural Coating	1/1/2022	12/31/2022	5	260	
7	Hardscape / Landscaping	Paving	9/1/2022	12/31/2022	5	87	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 528,711; Residential Outdoor: 176,237; Non-Residential Indoor: 26,700; Non-Residential Outdoor: 8,900; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Shoring / Excavation	Air Compressors	1	8.00	78	0.48
Shoring / Excavation	Bore/Drill Rigs	2	8.00	221	0.50
Shoring / Excavation	Cranes	1	8.00	231	0.29
Shoring / Excavation	Excavators	1	8.00	158	0.38
Shoring / Excavation	Graders	0	8.00	187	0.41
Shoring / Excavation	Plate Compactors	1	8.00	8	0.43
Shoring / Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Shoring / Excavation	Rubber Tired Loaders	1	8.00	203	0.36
Shoring / Excavation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Shoring / Excavation	Welders	4	8.00	46	0.45
Foundation / Below Grade Parking	Cranes	1	8.00	231	0.29
Foundation / Below Grade Parking	Excavators	0	8.00	158	0.38
Foundation / Below Grade Parking	Forklifts	2	8.00	89	0.20
Foundation / Below Grade Parking	Generator Sets	2	8.00	84	0.74
Foundation / Below Grade Parking	Graders	0	8.00	187	0.41
Foundation / Below Grade Parking	Plate Compactors	2	8.00	8	0.43
Foundation / Below Grade Parking	Pumps	1	8.00	84	0.74

Foundation / Below Grade Parking	Rubber Tired Dozers	0	8.00	247	0.40
Foundation / Below Grade Parking	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Foundation / Below Grade Parking	Welders	0	8.00	46	0.45
Tower Construction	Cranes	0	8.00	231	0.29
Tower Construction	Forklifts	2	8.00	89	0.20
Tower Construction	Generator Sets	0	8.00	84	0.74
Tower Construction	Pumps	2	8.00	84	0.74
Tower Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Tower Construction	Welders	6	8.00	46	0.45
Interior Finishes	Aerial Lifts	3	8.00	63	0.31
Interior Finishes	Air Compressors	3	8.00	78	0.48
Interior Finishes	Cranes	0	8.00	231	0.29
Interior Finishes	Forklifts	2	8.00	89	0.20
Interior Finishes	Generator Sets	0	8.00	84	0.74
Interior Finishes	Pavers	0	8.00	130	0.42
Interior Finishes	Paving Equipment	0	8.00	132	0.36
Interior Finishes	Rollers	0	8.00	80	0.38
Interior Finishes	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Interior Finishes	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	2	6.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	0	8.00	9	0.56
Architectural Coating	Paving Equipment	0	8.00	132	0.36
Architectural Coating	Skid Steer Loaders	0	8.00	65	0.37
Hardscape / Landscaping	Cement and Mortar Mixers	1	8.00	9	0.56
Hardscape / Landscaping	Pavers	0	8.00	130	0.42
Hardscape / Landscaping	Paving Equipment	0	8.00	132	0.36
Hardscape / Landscaping	Rollers	0	8.00	80	0.38
Hardscape / Landscaping	Skid Steer Loaders	2	8.00	65	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	24.00	0.00	800.00	14.70	6.90	35.00	LD_Mix	HDT_Mix	HHDT
Shoring / Excavation	11	100.00	8.00	8,586.00	14.70	6.90	35.00	LD_Mix	HHDT	HHDT
Foundation / Below Grade Parking	6	300.00	242.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
Tower Construction	10	500.00	100.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
Interior Finishes	9	250.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	50.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hardscape / Landscaping	4	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					

Fugitive Dust					1.6968	0.0000	1.6968	0.2569	0.0000	0.2569						0.0000
Off-Road	1.5536	14.2478	15.6297	0.0289		0.6771	0.6771		0.6469	0.6469						2,789.8423
Total	1.5536	14.2478	15.6297	0.0289	1.6968	0.6771	2.3740	0.2569	0.6469	0.9038						2,789.8423

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4702	14.9560	3.6450	0.0477	1.1638	0.0534	1.2172	0.3188	0.0510	0.3699						5,190.6431
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1107	0.0720	0.8157	2.5000e-003	0.2683	1.9900e-003	0.2703	0.0711	1.8300e-003	0.0730						249.3238
Total	0.5808	15.0280	4.4607	0.0502	1.4321	0.0553	1.4874	0.3900	0.0529	0.4429						5,439.9669

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6618	0.0000	0.6618	0.1002	0.0000	0.1002						0.0000
Off-Road	1.5536	14.2478	15.6297	0.0289		0.6771	0.6771		0.6469	0.6469						2,789.8423
Total	1.5536	14.2478	15.6297	0.0289	0.6618	0.6771	1.3389	0.1002	0.6469	0.7471						2,789.8423

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4702	14.9560	3.6450	0.0477	1.1638	0.0534	1.2172	0.3188	0.0510	0.3699						5,190.6431
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1107	0.0720	0.8157	2.5000e-003	0.2683	1.9900e-003	0.2703	0.0711	1.8300e-003	0.0730						249.3238
Total	0.5808	15.0280	4.4607	0.0502	1.4321	0.0553	1.4874	0.3900	0.0529	0.4429						5,439.9669

3.3 Shoring / Excavation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					0.0810	0.0000	0.0810	0.0123	0.0000	0.0123						0.0000
Off-Road	3.0440	25.2347	20.5104	0.0507		1.0451	1.0451		0.9960	0.9960						4,759.5756
Total	3.0440	25.2347	20.5104	0.0507	0.0810	1.0451	1.1261	0.0123	0.9960	1.0083						4,759.5756

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	1.3082	41.6151	10.1422	0.1327	3.2383	0.1485	3.3867	0.8872	0.1420	1.0292							14,442.9645
Vendor	0.0306	1.1907	0.2460	2.5500e-003	0.0483	2.5100e-003	0.0508	0.0133	2.4000e-003	0.0157							277.6614
Worker	0.4612	0.2998	3.3987	0.0104	1.1178	8.2700e-003	1.1260	0.2964	7.6200e-003	0.3041							1,038.8492
Total	1.8000	43.1056	13.7868	0.1457	4.4043	0.1592	4.5636	1.1969	0.1521	1.3489							15,759.4751

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0316	0.0000	0.0316	4.7800e-003	0.0000	4.7800e-003							0.0000
Off-Road	3.0440	25.2347	20.5104	0.0507		1.0451	1.0451		0.9960	0.9960							4,759.5756
Total	3.0440	25.2347	20.5104	0.0507	0.0316	1.0451	1.0767	4.7800e-003	0.9960	1.0008							4,759.5756

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	1.3082	41.6151	10.1422	0.1327	3.2383	0.1485	3.3867	0.8872	0.1420	1.0292							14,442.9645
Vendor	0.0306	1.1907	0.2460	2.5500e-003	0.0483	2.5100e-003	0.0508	0.0133	2.4000e-003	0.0157							277.6614
Worker	0.4612	0.2998	3.3987	0.0104	1.1178	8.2700e-003	1.1260	0.2964	7.6200e-003	0.3041							1,038.8492
Total	1.8000	43.1056	13.7868	0.1457	4.4043	0.1592	4.5636	1.1969	0.1521	1.3489							15,759.4751

3.4 Foundation / Below Grade Parking - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.8470	17.2525	15.8495	0.0295		0.8969	0.8969		0.8678	0.8678							2,802.3938
Total	1.8470	17.2525	15.8495	0.0295		0.8969	0.8969		0.8678	0.8678							2,802.3938

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.9260	36.0198	7.4411	0.0772	1.4616	0.0759	1.5375	0.4008	0.0726	0.4734							8,399.2577
Worker	1.3835	0.8993	10.1960	0.0313	3.3533	0.0248	3.3781	0.8893	0.0229	0.9122							3,116.5476
Total	2.3095	36.9191	17.6371	0.1084	4.8149	0.1007	4.9156	1.2901	0.0955	1.3856							11,515.8053

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8470	17.2525	15.8495	0.0295		0.8969	0.8969		0.8678	0.8678							2,802.3938
Total	1.8470	17.2525	15.8495	0.0295		0.8969	0.8969		0.8678	0.8678							2,802.3938

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.9260	36.0198	7.4411	0.0772	1.4616	0.0759	1.5375	0.4008	0.0726	0.4734							8,399.2577
Worker	1.3835	0.8993	10.1960	0.0313	3.3533	0.0248	3.3781	0.8893	0.0229	0.9122							3,116.5476
Total	2.3095	36.9191	17.6371	0.1084	4.8149	0.1007	4.9156	1.2901	0.0955	1.3856							11,515.8053

3.5 Tower Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	2.8354	17.8317	20.1299	0.0315		0.9673	0.9673		0.9539	0.9539							2,795.1449
Total	2.8354	17.8317	20.1299	0.0315		0.9673	0.9673		0.9539	0.9539							2,795.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.3826	14.8842	3.0749	0.0319	0.6040	0.0314	0.6353	0.1656	0.0300	0.1956							3,470.7677
Worker	2.3059	1.4989	16.9933	0.0521	5.5888	0.0414	5.6302	1.4822	0.0381	1.5203							5,194.2460
Total	2.6885	16.3831	20.0682	0.0840	6.1928	0.0727	6.2655	1.6478	0.0681	1.7159							8,665.0136

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.8354	17.8317	20.1299	0.0315		0.9673	0.9673		0.9539	0.9539							2,795.1449
Total	2.8354	17.8317	20.1299	0.0315		0.9673	0.9673		0.9539	0.9539							2,795.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.3826	14.8842	3.0749	0.0319	0.6040	0.0314	0.6353	0.1656	0.0300	0.1956							3,470.7677
Worker	2.3059	1.4989	16.9933	0.0521	5.5888	0.0414	5.6302	1.4822	0.0381	1.5203							5,194.2460
Total	2.6885	16.3831	20.0682	0.0840	6.1928	0.0727	6.2655	1.6478	0.0681	1.7159							8,665.0136

3.5 Tower Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	2.5914	16.8248	19.9461	0.0316		0.8345	0.8345		0.8233	0.8233							2,794.7045
Total	2.5914	16.8248	19.9461	0.0316		0.8345	0.8345		0.8233	0.8233							2,794.7045

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.3628	14.0236	3.0136	0.0315	0.6040	0.0270	0.6310	0.1656	0.0259	0.1915							3,430.6363
Worker	2.1687	1.3538	15.6869	0.0502	5.5888	0.0402	5.6290	1.4822	0.0370	1.5192							5,008.0466
Total	2.5315	15.3774	18.7005	0.0817	6.1928	0.0672	6.2600	1.6478	0.0629	1.7107							8,438.6828

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.5914	16.8248	19.9461	0.0316		0.8345	0.8345		0.8233	0.8233							2,794.7045
Total	2.5914	16.8248	19.9461	0.0316		0.8345	0.8345		0.8233	0.8233							2,794.7045

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.3628	14.0236	3.0136	0.0315	0.6040	0.0270	0.6310	0.1656	0.0259	0.1915							3,430.6363
Worker	2.1687	1.3538	15.6869	0.0502	5.5888	0.0402	5.6290	1.4822	0.0370	1.5192							5,008.0466
Total	2.5315	15.3774	18.7005	0.0817	6.1928	0.0672	6.2600	1.6478	0.0629	1.7107							8,438.6828

3.6 Interior Finishes - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.6596	15.1168	14.8709	0.0258		0.7750	0.7750		0.7431	0.7431							2,481.2397
Total	1.6596	15.1168	14.8709	0.0258		0.7750	0.7750		0.7431	0.7431							2,481.2397

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.0591	1.9108	0.5170	4.9200e-003	0.1280	4.0300e-003	0.1320	0.0368	3.8600e-003	0.0407							527.6422
Worker	1.1529	0.7494	8.4967	0.0260	2.7944	0.0207	2.8151	0.7411	0.0191	0.7601							2,597.1230
Total	1.2121	2.6603	9.0136	0.0310	2.9224	0.0247	2.9471	0.7779	0.0229	0.8008							3,124.7652

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6596	15.1168	14.8709	0.0258		0.7750	0.7750		0.7431	0.7431							2,481.2397
Total	1.6596	15.1168	14.8709	0.0258		0.7750	0.7750		0.7431	0.7431							2,481.2397

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.0591	1.9108	0.5170	4.9200e-003	0.1280	4.0300e-003	0.1320	0.0368	3.8600e-003	0.0407							527.6422
Worker	1.1529	0.7494	8.4967	0.0260	2.7944	0.0207	2.8151	0.7411	0.0191	0.7601							2,597.1230
Total	1.2121	2.6603	9.0136	0.0310	2.9224	0.0247	2.9471	0.7779	0.0229	0.8008							3,124.7652

3.6 Interior Finishes - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.5265	13.6088	14.7361	0.0258		0.6716	0.6716		0.6440	0.6440							2,481.2330
Total	1.5265	13.6088	14.7361	0.0258		0.6716	0.6716		0.6440	0.6440							2,481.2330

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.0555	1.8137	0.4896	4.8800e-003	0.1280	3.5100e-003	0.1315	0.0368	3.3600e-003	0.0402							522.9075
Worker	1.0844	0.6769	7.8435	0.0251	2.7944	0.0201	2.8145	0.7411	0.0185	0.7596							2,504.0233
Total	1.1399	2.4906	8.3331	0.0300	2.9224	0.0236	2.9460	0.7779	0.0219	0.7998							3,026.9308

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.5265	13.6088	14.7361	0.0258		0.6716	0.6716		0.6440	0.6440							2,481.2330
Total	1.5265	13.6088	14.7361	0.0258		0.6716	0.6716		0.6440	0.6440							2,481.2330

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.0555	1.8137	0.4896	4.8800e-003	0.1280	3.5100e-003	0.1315	0.0368	3.3600e-003	0.0402							522.9075
Worker	1.0844	0.6769	7.8435	0.0251	2.7944	0.0201	2.8145	0.7411	0.0185	0.7596							2,504.0233
Total	1.1399	2.4906	8.3331	0.0300	2.9224	0.0236	2.9460	0.7779	0.0219	0.7998							3,026.9308

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Archit. Coating	7.1172					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634						563.8123
Total	7.5263	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634						563.8123

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	8.3200e-003	0.2721	0.0735	7.3000e-004	0.0192	5.3000e-004	0.0197	5.5300e-003	5.0000e-004	6.0300e-003						78.4361
Worker	0.2169	0.1354	1.5687	5.0200e-003	0.5589	4.0200e-003	0.5629	0.1482	3.7000e-003	0.1519						500.8047
Total	0.2252	0.4074	1.6421	5.7500e-003	0.5781	4.5500e-003	0.5826	0.1538	4.2000e-003	0.1580						579.2408

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.1172					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634						563.8123
Total	7.5263	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634						563.8123

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	8.3200e-003	0.2721	0.0735	7.3000e-004	0.0192	5.3000e-004	0.0197	5.5300e-003	5.0000e-004	6.0300e-003						78.4361
Worker	0.2169	0.1354	1.5687	5.0200e-003	0.5589	4.0200e-003	0.5629	0.1482	3.7000e-003	0.1519						500.8047
Total	0.2252	0.4074	1.6421	5.7500e-003	0.5781	4.5500e-003	0.5826	0.1538	4.2000e-003	0.1580						579.2408

3.8 Hardscape / Landscaping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hollywood and Wilcox (Construction Localized) - South Coast Air Basin, Winter

Hollywood and Wilcox (Construction Localized)
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.58	1000sqft	0.00	3,580.00	0
Enclosed Parking with Elevator	168.00	Space	0.00	89,680.00	0
Unenclosed Parking Structure	252.00	Space	0.00	96,380.00	0
High Turnover (Sit Down Restaurant)	3.20	1000sqft	0.00	3,200.00	0
Apartments High Rise	260.00	Dwelling Unit	1.40	261,092.00	744
Strip Mall	11.02	1000sqft	0.00	11,020.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year		2023	
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - see Construction Assumptions

Off-road Equipment - see Construction Assumptions

Off-road Equipment - see Construction Assumptions

Off-road Equipment - see Construction Assumptions

Off-road Equipment - see Construction Assumptions

Off-road Equipment - see Construction Assumptions

Off-road Equipment -

Off-road Equipment - see Construction Assumptions

Off-road Equipment - see Construction Assumptions

Trips and VMT - See Construction Assumptions. On-site activity equivalent to 0.1 miles at 15 mph.

Demolition - see Construction Assumptions

Grading - see Construction Assumptions

Architectural Coating -

Vehicle Trips -

Construction Off-road Equipment Mitigation -

Fleet Mix -

On-road Fugitive Dust - On-site Speed

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	11164	10080
tblAreaCoating	Area_Residential_Exterior	176237	175500
tblAreaCoating	Area_Residential_Interior	528711	526500

tblConstructionPhase	NumDays	10.00	260.00
tblConstructionPhase	NumDays	200.00	39.00
tblConstructionPhase	NumDays	200.00	195.00
tblConstructionPhase	NumDays	200.00	305.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	4.00	81.00
tblConstructionPhase	NumDays	10.00	87.00
tblGrading	MaterialExported	0.00	58,000.00
tblLandUse	LandUseSquareFeet	67,200.00	89,680.00
tblLandUse	LandUseSquareFeet	100,800.00	96,380.00
tblLandUse	LandUseSquareFeet	260,000.00	261,092.00
tblLandUse	LotAcreage	0.08	0.00
tblLandUse	LotAcreage	1.51	0.00
tblLandUse	LotAcreage	2.27	0.00
tblLandUse	LotAcreage	0.07	0.00
tblLandUse	LotAcreage	4.19	1.40
tblLandUse	LotAcreage	0.25	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
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tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	858.60
tblTripsAndVMT	HaulingTripNumber	165.00	1.00
tblTripsAndVMT	HaulingTripNumber	7,250.00	1.00
tblTripsAndVMT	VendorTripLength	6.90	0.80
tblTripsAndVMT	VendorTripLength	6.90	24.20
tblTripsAndVMT	VendorTripLength	6.90	10.00
tblTripsAndVMT	VendorTripLength	6.90	2.00
tblTripsAndVMT	VendorTripLength	6.90	0.30
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	61.00	1.00
tblTripsAndVMT	VendorTripNumber	61.00	1.00
tblTripsAndVMT	VendorTripNumber	61.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripNumber	15.00	24.00
tblTripsAndVMT	WorkerTripNumber	28.00	100.00
tblTripsAndVMT	WorkerTripNumber	271.00	300.00
tblTripsAndVMT	WorkerTripNumber	271.00	500.00
tblTripsAndVMT	WorkerTripNumber	271.00	250.00
tblTripsAndVMT	WorkerTripNumber	54.00	50.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	lb/day										lb/day						
2021	5.2239	33.4108	38.3352	0.0600	1.7022	1.7479	2.3797	0.2584	1.7022	1.7232							5,549.6445
2022	12.3615	33.7778	41.5548	0.0663	0.0857	1.6754	1.7611	0.0240	1.6362	1.6602							6,145.0339
Maximum	12.3615	33.7778	41.5548	0.0663	1.7022	1.7479	2.3797	0.2584	1.7022	1.7232							6,145.0339

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	lb/day										lb/day						
2021	5.2239	33.4108	38.3352	0.0600	0.6672	1.7479	1.8229	0.1017	1.7022	1.7232							5,549.6445
2022	12.3615	33.7778	41.5548	0.0663	0.0857	1.6754	1.7611	0.0240	1.6362	1.6602							6,145.0339
Maximum	12.3615	33.7778	41.5548	0.0663	0.6672	1.7479	1.8229	0.1017	1.7022	1.7232							6,145.0339

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	57.89	0.00	13.45	55.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/31/2021	5	21	
2	Shoring / Excavation	Grading	2/1/2021	5/24/2021	5	81	
3	Foundation / Below Grade Parking	Building Construction	5/25/2021	7/16/2021	5	39	
4	Tower Construction	Building Construction	7/17/2021	4/15/2022	5	195	
5	Interior Finishes	Building Construction	11/1/2021	12/31/2022	5	305	
6	Architectural Coating	Architectural Coating	1/1/2022	12/31/2022	5	260	
7	Hardscape / Landscaping	Paving	9/1/2022	12/31/2022	5	87	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 528,711; Residential Outdoor: 176,237; Non-Residential Indoor: 26,700; Non-Residential Outdoor: 8,900; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73

Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Shoring / Excavation	Air Compressors	1	8.00	78	0.48
Shoring / Excavation	Bore/Drill Rigs	2	8.00	221	0.50
Shoring / Excavation	Cranes	1	8.00	231	0.29
Shoring / Excavation	Excavators	1	8.00	158	0.38
Shoring / Excavation	Graders	0	8.00	187	0.41
Shoring / Excavation	Plate Compactors	1	8.00	8	0.43
Shoring / Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Shoring / Excavation	Rubber Tired Loaders	1	8.00	203	0.36
Shoring / Excavation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Shoring / Excavation	Welders	4	8.00	46	0.45
Foundation / Below Grade Parking	Cranes	1	8.00	231	0.29
Foundation / Below Grade Parking	Excavators	0	8.00	158	0.38
Foundation / Below Grade Parking	Forklifts	2	8.00	89	0.20
Foundation / Below Grade Parking	Generator Sets	2	8.00	84	0.74
Foundation / Below Grade Parking	Graders	0	8.00	187	0.41
Foundation / Below Grade Parking	Plate Compactors	2	8.00	8	0.43
Foundation / Below Grade Parking	Pumps	1	8.00	84	0.74
Foundation / Below Grade Parking	Rubber Tired Dozers	0	8.00	247	0.40
Foundation / Below Grade Parking	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Foundation / Below Grade Parking	Welders	0	8.00	46	0.45
Tower Construction	Cranes	0	8.00	231	0.29
Tower Construction	Forklifts	2	8.00	89	0.20
Tower Construction	Generator Sets	0	8.00	84	0.74
Tower Construction	Pumps	2	8.00	84	0.74
Tower Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Tower Construction	Welders	6	8.00	46	0.45
Interior Finishes	Aerial Lifts	3	8.00	63	0.31
Interior Finishes	Air Compressors	3	8.00	78	0.48
Interior Finishes	Cranes	1	8.00	231	0.29
Interior Finishes	Forklifts	2	8.00	89	0.20
Interior Finishes	Generator Sets	0	8.00	84	0.74
Interior Finishes	Pavers	0	8.00	130	0.42
Interior Finishes	Paving Equipment	0	8.00	132	0.36
Interior Finishes	Rollers	0	8.00	80	0.38
Interior Finishes	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Interior Finishes	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	2	6.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	0	8.00	9	0.56
Architectural Coating	Paving Equipment	0	8.00	132	0.36
Architectural Coating	Skid Steer Loaders	0	8.00	65	0.37
Hardscape / Landscaping	Cement and Mortar Mixers	1	8.00	9	0.56
Hardscape / Landscaping	Pavers	0	8.00	130	0.42
Hardscape / Landscaping	Paving Equipment	1	8.00	132	0.36
Hardscape / Landscaping	Rollers	0	8.00	80	0.38
Hardscape / Landscaping	Skid Steer Loaders	2	8.00	65	0.37

Hollywood and Wilcox
Air Quality Threshold Calculations

Step 1. Determine Allowable Increase using 98th percentile NO2 and Max NO2 data

Central LA NO2 Monitoring Data

SRA	City	Design Value	98th percentile, ppb			
		2014-2016	2013	2014	2015	2016
1	CELA	64	69	62	61	

Threshold (ppb) Allowable Increase (ppb)
100 36

SRA	City	Design Value	Max Hourly, ppb			
		2006-2008	2013	2014	2015	2016
1	CELA	120	82	79	65	

Threshold (ppb) Allowable Increase (ppb)
180 60

Max Hourly vs. 98th Percentile Ratio (Allowable Increase)	60%
--	------------

Step 2. Use ratio in Step 1 to determine LST lookup value. Extrapolate/Interpolate LST look-up value for project area

LST Threshold (SRA 1, 25 meter receptor)

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	PM10 Ops (lbs/day)	PM2.5 Ops (lbs/day)
1	74	44	680	5	3	2	1
2	108	64	1048	8	5	2	2
5	161	96	1861	16	8	4	2
1.39	88	52	827	6	4	2	1

<----Interpolated Value

Hollywood and Wilcox

Draft EIR

Appendix C-1

Air Quality Worksheets and Modeling Output Files

- Appendix C-1.2: Operational Emissions Inventory
 - CalEEMod Outputs – Operations (Baseline and Project)
 - Baseline (Existing)
 - Baseline (Buildout Year)
 - Buildout

AQ SUMMARY OF EMISSIONS							AQ SUMMARY OF EMISSIONS						
Operation Emissions (No Project Design Features)							Operation Emissions (With Project Design Features)						
Regional Baseline	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	Regional Baseline	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	<1	<1	<1	<1	<1	<1	Area	<1	<1	<1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1	Energy	<1	<1	<1	<1	<1	<1
Mobile	2	7	20	<1	4	1	Mobile	1	5	11	<1	1	<1
Emergency Generator	<1	<1	<1	<1	<1	<1	Emergency Generator	<1	<1	<1	<1	<1	<1
Total	2	7	20	0	4	1	Total	2	5	11	0	1	0
Regional Baseline (Buildout)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	Regional Baseline (Buildout)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	<1	<1	<1	<1	<1	<1	Area	<1	<1	<1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1	Energy	<1	<1	<1	<1	<1	<1
Mobile	1	4	12	<1	4	<1	Mobile	<1	3	6	<1	1	<1
Emergency Generator	<1	<1	<1	<1	<1	<1	Emergency Generator	<1	<1	<1	<1	<1	<1
Total	2	4	12	0	4	1	Total	1	3	6	0	1	0
Regional Buildout	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	Regional Buildout	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	75	6	154	<1	20	20	Area	7	<1	21	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1	Energy	<1	<1	<1	<1	<1	<1
Mobile	4	17	48	<1	16	4	Mobile	3	11	23	<1	5	1
Emergency Generator	<1	<1	<1	<1	<1	<1	Emergency Generator	<1	<1	<1	<1	<1	<1
Total	79	23	203	<1	36	24	Total	10	12	45	<1	6	2
Project Regional (Buildout Less Baseline)							Project Regional (Buildout Less Baseline)						
	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}		ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	74	6	154	<1	20	20	Area	6	<1	21	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1	Energy	<1	<1	<1	<1	<1	<1
Mobile	2	9	28	<1	12	3	Mobile	1	6	12	<1	4	1
Emergency Generator	<1	<1	<1	<1	<1	<1	Emergency Generator	<1	<1	<1	<1	<1	<1
Total	76	16	182	<1	32	23	Total	8	8	34	<1	4	1
Threshold	55	55	550	150	150	55	Threshold	55	55	550	150	150	55
Difference	21	(39)	(368)	(150)	(118)	(32)	Difference	(47)	(47)	(516)	(150)	(146)	(54)
Impact	Yes	No	No	No	No	No	Impact	No	No	No	No	No	No
							Percent Reduction:	-90%	-51%	-81%	-89%	-87%	-95%
Project Localized (Buildout Less Baseline)							Project Localized (Buildout Less Baseline)						
Onsite Total		7	154		20	20.1	Onsite Total		1	22		0	0.2
Threshold		52	827		2.0	1.4	Threshold		52	827		2.0	1.4
Difference		(45)	(672)		18	19	Difference		(51)	(804)		(2)	(1)
Impact		No	No		Yes	Yes	Impact		No	No		No	No
Project (Buildout Less Baseline (Buildout))							Project (Buildout Less Baseline (Buildout))						
	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}		ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	74	6	154	<1	20	20	Area	6	<1	21	<1	0.1	0.1
Energy	<1	<1	<1	<1	<1	<1	Energy	<1	<1	<1	<1	0.1	0.1
Mobile	3	12	37	<1	12	3	Mobile	2	8	16	<1	4.0	1.1
Emergency Generator	<1	<1	<1	<1	<1	<1	Emergency Generator	<1	<1	<1	<1	0.0	0.0
Total	77	19	191	<1	32	23	Total	8	9	39	<1	4.2	1.3
Threshold	55	55	550	150	150	55	Threshold	55	55	550	150	150	55
Difference	22	(36)	(359)	(150)	(118)	(32)	Difference	(47)	(46)	(511)	(150)	(146)	(54)
Impact	Yes	No	No	No	No	No	Impact	No	No	No	No	No	No
							Percent Reduction:	-89%	-52%	-80%	-88%	-87%	-94%
Project Localized (Buildout Less Baseline (Buildout))							Project Localized (Buildout Less Baseline (Buildout))						
Onsite Total		7	154		20	20.1	Onsite Total		1	22		0.2	0.2
Threshold		52	827		2	1.4	Threshold		52	827		2	1.4
Difference		(45)	(672)		18	19	Difference		(51)	(804)		(2)	(1)
Impact		No	No		Yes	Yes	Impact		No	No		No	No

SOURCE CALCULATIONS:

Trip Generation Rates (ADT):															
	Square Footage	Quantity	Units	ITE Trip Generation Rate (9th Edition)		Trip Reduction Credits Internal Captur Walk/Bike	TDM (%)	Total	Daily Trip Rate Buildout	CalEEMod Default			Adjusted Trips (Buildout)		
				Daily	Transit					Weekday	Saturday	Sunday	Adjustment	Sat	Sun
Buildout (Daily Trip Generation)															
Apartments (ITE# 220)	261,092	260.00	Units	6.65		Calculated within CalEEMod	15%	1,470	5.65	4.20	4.98	3.65	1.35	6.70	4.91
General Office Building (ITE# 710)	3,580	3.58	TSF	11.03		Calculated within CalEEMod	15%	34	9.38	11.03	2.46	1.05	0.85	2.09	0.89
Shopping Center (ITE#820)	11,020	11.02	TSF	42.70		Calculated within CalEEMod	15%	400	36.30	44.32	42.04	20.43	0.82	34.43	16.73
High-Turnover Restaurant (ITE# 932)	3,200	3.20	TSF	127.15		Calculated within CalEEMod	15%	346	108.08	127.15	158.37	131.84	0.85	134.61	112.06
Parking (Below 2 levels)	89,680	168	spaces	-		-	-	-	-	-	-	-	-	-	-
Parking (Above 3 levels)	96,380	252	spaces	-		-	-	-	-	-	-	-	-	-	-
Total:								2,249							
***Parking Above Grade includes 1,450 sq ft bicycle parking facility															
Baseline (Daily Trip Generation)															
General Office Building (ITE# 710)	14,880	14.88	TSF	11.03		Calculated within CalEEMod	0%	164	11.03	11.03	2.46	1.05	1.00	2.46	1.05
Shopping Center (ITE#820)	14,320	14.32	TSF	42.70		Calculated within CalEEMod	0%	611	42.70	44.32	42.04	20.43	0.96	40.50	19.68
Parking	35,900	90.00	spaces	-		-	-	-	-	-	-	-	-	-	-
Total:								776							
***Note: Trip generation rates were derived from the AB900 Traffic Assessment for the Hollywood & Wilcox Project, dated July 21, 2018, attached as Appendix D.															

APPLICABLE VMT REDUCTION MEASURES Included within CalEEMod														
Applicable VMT Reduction Measures selected in CalEEMod based on CAPCOA's Quantifying Greenhouse Gas Mitigation Measures, August, 2010.														
LUT-#	Description	Buildout #/Acre	Baseline #/Acre											
LUT-1:	Increase Density LUT-1 CAPCOA measures dwellings per acre and jobs per acre . Data Needed: number of housing units per acre or jobs per acre Employees: 79 employees for Baseline and 56 employees for Buildout. Residential Units: 0 units for Baseline and 260 units (632 population) for Buildout. Acreage	40	56	186	Not Applicable	1.4	1.4							
LUT-3	Increase Diversity of Urban and Suburban Developments (Mixed Use) (Internally calculated in CalEEMod based on mix of land uses)													
LUT-4	Improve Destination Accessibility Distance to Downtown or Job Center	5.5	5.5 miles											
LUT-5	Increase Transit Accessibility (0.5-24.6% reduction) Distance to Transit Station	0.25	0.25 miles											
LUT-6	Integrate Below Market Rate Housing Number of dwelling units below market rate	Not Applicable	Not Applicable	dwelling units										
LUT-8/SDT-1	Provide pedestrian Network Improvements	Project Site	On Not Applicable											
LUT-9	Improve Walkability Design Intersections within one square mile of the Project site	161	161 Intersections											
SDT-2	Provide Traffic Calming Measures Percent of Streets with sidewalks within one square mile of the Project site Percent of intersections with crosswalks within one square mile of the Project site Number of intersections with crosswalks and/or timers	75	75 Percent	25	25 Percent	52	52 Intersections							
Total VMT Reduction for Buildout:														
Buildout with CAPCOA Measures:		6,328,543	miles											
Buildout without CAPCOA Measures:		2,104,241	miles											
Percent Reduction:		-67%												

Hollywood and Wilcox (Operations) - Baseline - Los Angeles-South Coast County, Winter

Hollywood and Wilcox (Operations) - Baseline
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.88	1000sqft	1.40	14,880.00	0
Parking Lot	35.90	1000sqft	0.00	35,900.00	0
Strip Mall	14.32	1000sqft	0.00	14,320.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2017
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	834	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP 2016 CO2 Intensity Factor - 834 lbs/MWh

Land Use - Site Specific Acreage

Vehicle Trips - see Traffic Study

Woodstoves - No hearths

Energy Use - Historic Data

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.34	1.40
tblLandUse	LotAcreage	0.82	0.00
tblLandUse	LotAcreage	0.33	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblVehicleTrips	ST_TR	42.04	40.50
tblVehicleTrips	SU_TR	20.43	19.69
tblVehicleTrips	WD_TR	44.32	42.70

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6684	6.0000e-005	6.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0152
Energy	6.2400e-003	0.0567	0.0477	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003						68.4688
Mobile	1.7894	7.3135	20.3860	0.0489	3.5996	0.0689	3.6685	0.9638	0.0650	1.0287						4,962.7917
Total	2.4640	7.3702	20.4404	0.0492	3.5996	0.0732	3.6729	0.9638	0.0693	1.0331						5,031.2758

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6684	6.0000e-005	6.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0152
Energy	6.2400e-003	0.0567	0.0477	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003						68.4688
Mobile	1.3751	4.5130	10.7513	0.0198	1.3025	0.0295	1.3320	0.3487	0.0278	0.3765						2,010.5358
Total	2.0498	4.5698	10.8057	0.0201	1.3025	0.0338	1.3363	0.3487	0.0321	0.3808						2,079.0198

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	16.81	38.00	47.14	59.11	63.82	53.84	63.62	63.81	53.70	63.14	0.00	0.00	0.00	0.00	0.00	58.68

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3751	4.5130	10.7513	0.0198	1.3025	0.0295	1.3320	0.3487	0.0278	0.3765						2,010.5358
Unmitigated	1.7894	7.3135	20.3860	0.0489	3.5996	0.0689	3.6685	0.9638	0.0650	1.0287						4,962.7917

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated

Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	164.13	36.60	15.62	401,698	145,354
Parking Lot	0.00	0.00	0.00		
Strip Mall	611.46	579.96	281.96	1,065,247	385,457
Total	775.59	616.56	297.58	1,466,945	530,811

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547512	0.046663	0.198227	0.127154	0.018333	0.005870	0.017956	0.026928	0.002295	0.002753	0.004678	0.000662	0.000968
Parking Lot	0.547512	0.046663	0.198227	0.127154	0.018333	0.005870	0.017956	0.026928	0.002295	0.002753	0.004678	0.000662	0.000968
Strip Mall	0.547512	0.046663	0.198227	0.127154	0.018333	0.005870	0.017956	0.026928	0.002295	0.002753	0.004678	0.000662	0.000968

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
NaturalGas Mitigated	6.2400e-003	0.0567	0.0477	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003						68.4688
NaturalGas Unmitigated	6.2400e-003	0.0567	0.0477	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003						68.4688

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
General Office Building	507.143	5.4700e-003	0.0497	0.0418	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003						60.0184
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Strip Mall	71.4038	7.7000e-004	7.0000e-003	5.8800e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004						8.4504
Total		6.2400e-003	0.0567	0.0476	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003						68.4688

Mitigated

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Hollywood and Wilcox (Operations) - Baseline Buildout - Los Angeles-South Coast County, Winter

Hollywood and Wilcox (Operations) - Baseline Buildout
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.88	1000sqft	1.40	14,880.00	0
Parking Lot	35.90	1000sqft	0.00	35,900.00	0
Strip Mall	14.32	1000sqft	0.00	14,320.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	834	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - LADWP 2016 CO2 Intensity Factor - 834 lbs/MWh
- Land Use - Site Specific Acreage
- Vehicle Trips - see Traffic Study
- Woodstoves - No hearths
- Energy Use - Historic Data
- Construction Off-road Equipment Mitigation -
- Mobile Land Use Mitigation -
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.34	1.40
tblLandUse	LotAcreage	0.82	0.00
tblLandUse	LotAcreage	0.33	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblVehicleTrips	ST_TR	42.04	40.50
tblVehicleTrips	SU_TR	20.43	19.69
tblVehicleTrips	WD_TR	44.32	42.70

2.0 Emissions Summary

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	0.6684	6.0000e-005	6.6500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005							0.0152
Energy	6.2400e-003	0.0567	0.0477	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003							68.4688
Mobile	1.0356	4.3408	11.7121	0.0419	3.5981	0.0330	3.6311		0.0307	0.9935							4,273.8655
Total	1.7102	4.3976	11.7664	0.0422	3.5981	0.0373	3.6354		0.0350	0.9979							4,342.3495

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	0.6684	6.0000e-005	6.6500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005							0.0152
Energy	6.2400e-003	0.0567	0.0477	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003							68.4688
Mobile	0.8065	3.1075	6.0816	0.0172	1.3020	0.0148	1.3168		0.0137	0.3622							1,760.5530
Total	1.4811	3.1642	6.1359	0.0175	1.3020	0.0191	1.3211		0.0181	0.3665							1,829.0369

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	13.39	28.05	47.85	58.44	63.82	48.73	63.66	0.00	48.34	63.27	0.00	0.00	0.00	0.00	0.00	57.88

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.8065	3.1075	6.0816	0.0172	1.3020	0.0148	1.3168		0.0137	0.3622							1,760.5530
Unmitigated	1.0356	4.3408	11.7121	0.0419	3.5981	0.0330	3.6311		0.0307	0.9935							4,273.8655

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	164.13	36.60	15.62	401,698	145,354

Parking Lot	0.00	0.00	0.00		
Strip Mall	611.46	579.96	281.96	1,065,247	385,457
Total	775.59	616.56	297.58	1,466,945	530,811

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Parking Lot	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Strip Mall	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	6.2400e-003	0.0567	0.0477	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003						68.4688
NaturalGas Unmitigated	6.2400e-003	0.0567	0.0477	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003						68.4688

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
General Office Building	507.143	5.4700e-003	0.0497	0.0418	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003						60.0184
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Strip Mall	71.4038	7.7000e-004	7.0000e-003	5.8800e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004						8.4504
Total		6.2400e-003	0.0567	0.0476	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003						68.4688

Mitigated

NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Land Use	kBTU/yr	lb/day										lb/day				
General Office Building	0.507143	5.4700e-003	0.0497	0.0418	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003					60.0184
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000					0.0000
Strip Mall	0.0714038	7.7000e-004	7.0000e-003	5.8800e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004					8.4504
Total		6.2400e-003	0.0567	0.0476	3.4000e-004		4.3100e-003	4.3100e-003		4.3100e-003	4.3100e-003					68.4688

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6684	6.0000e-005	6.6500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0152
Unmitigated	0.6684	6.0000e-005	6.6500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0152

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0769					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.5909					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	6.2000e-004	6.0000e-005	6.6500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0152
Total	0.6684	6.0000e-005	6.6500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0152

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0769					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.5909					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	6.2000e-004	6.0000e-005	6.6500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0152
Total	0.6684	6.0000e-005	6.6500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0152

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Hollywood and Wilcox (Operations 2023) - Los Angeles-South Coast County, Winter

Hollywood and Wilcox (Operations 2023)
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.58	1000sqft	0.00	3,580.00	0
Enclosed Parking with Elevator	168.00	Space	0.00	89,680.00	0
Unenclosed Parking with Elevator	252.00	Space	0.00	96,380.00	0
High Turnover (Sit Down Restaurant)	3.20	1000sqft	0.00	3,200.00	0
Apartments High Rise	260.00	Dwelling Unit	1.40	261,092.00	744
Strip Mall	11.02	1000sqft	0.00	11,020.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	595	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CARB EF for Year 2023
- Land Use - Total acreage equals 1.4 acres. Site specific square footage.
- Vehicle Trips - see Traffic Study
- Woodstoves - No wood fireplaces or hearths
- Energy Use - see parking structure energy calculations
- Construction Off-road Equipment Mitigation -
- Mobile Land Use Mitigation -
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -
- Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	3.92	0.41
tblLandUse	LandUseSquareFeet	67,200.00	89,680.00
tblLandUse	LandUseSquareFeet	100,800.00	96,380.00
tblLandUse	LandUseSquareFeet	260,000.00	261,092.00
tblLandUse	LotAcreage	0.08	0.00
tblLandUse	LotAcreage	1.51	0.00
tblLandUse	LotAcreage	2.27	0.00
tblLandUse	LotAcreage	0.07	0.00
tblLandUse	LotAcreage	4.19	1.40
tblLandUse	LotAcreage	0.25	0.00

tblProjectCharacteristics	CO2IntensityFactor	1227.89	595
tblTripsAndVMT	VendorTripNumber	61.00	58.00
tblTripsAndVMT	WorkerTripNumber	271.00	264.00
tblVehicleTrips	ST_TR	4.98	6.70
tblVehicleTrips	ST_TR	2.46	2.09
tblVehicleTrips	ST_TR	158.37	134.61
tblVehicleTrips	ST_TR	42.04	34.43
tblVehicleTrips	SU_TR	3.65	4.91
tblVehicleTrips	SU_TR	1.05	0.89
tblVehicleTrips	SU_TR	131.84	112.06
tblVehicleTrips	SU_TR	20.43	16.73
tblVehicleTrips	WD_TR	4.20	5.65
tblVehicleTrips	WD_TR	11.03	9.38
tblVehicleTrips	WD_TR	127.15	108.08
tblVehicleTrips	WD_TR	44.32	36.30

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	74.8748	5.6423	153.7233	0.3385		19.9799	19.9799		19.9799	19.9799							7,385.8824
Energy	0.0943	0.8183	0.4366	5.1400e-003		0.0651	0.0651		0.0651	0.0651							1,034.3706
Mobile	3.8455	16.5549	48.3413	0.1800	15.7547	0.1398	15.8944	4.2160	0.1300	4.3460							18,371.9742
Stationary	0.1436	0.4013	0.3661	6.9000e-004		0.0211	0.0211		0.0211	0.0211							73.7150
Total	78.9581	23.4168	202.8673	0.5243	15.7547	20.2059	35.9605	4.2160	20.1961	24.4121							26,865.9421

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	6.7455	0.2477	21.4998	1.1400e-003		0.1189	0.1189		0.1189	0.1189							39.6542
Energy	0.0943	0.8183	0.4366	5.1400e-003		0.0651	0.0651		0.0651	0.0651							1,034.3706
Mobile	2.7963	10.9062	22.5537	0.0671	5.2384	0.0565	5.2950	1.4018	0.0525	1.4544							6,861.1240
Stationary	0.1436	0.4013	0.3661	6.9000e-004		0.0211	0.0211		0.0211	0.0211							73.7150
Total	9.7796	12.3735	44.8562	0.0740	5.2384	0.2617	5.5001	1.4018	0.2577	1.6595							8,008.8637

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Percent Reduction	87.61	47.16	77.89	85.88	66.75	98.70	84.71	66.75	98.72	93.20	0.00	0.00	0.00	0.00	0.00	70.19
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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7963	10.9062	22.5537	0.0671	5.2384	0.0565	5.2950	1.4018	0.0525	1.4544						6,861.1240
Unmitigated	3.8455	16.5549	48.3413	0.1800	15.7547	0.1398	15.8944	4.2160	0.1300	4.3460						18,371.9742

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,469.00	1,742.00	1276.60	5,059,142	1,682,165
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	33.58	7.48	3.19	82,180	27,325
High Turnover (Sit Down Restaurant)	345.86	430.75	358.59	490,351	163,042
Strip Mall	400.03	379.42	184.36	696,870	231,709
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,248.46	2,559.65	1,822.74	6,328,543	2,104,241

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
High Turnover (Sit Down Restaurant)	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Strip Mall	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unenclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy
 Install Low Flow Bathroom Faucet
 Install Low Flow Kitchen Faucet
 Install Low Flow Toilet
 Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.25	12	350	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	lb/day										lb/day						
Emergency Generator - Diesel (200 - 600 HP)	0.1436	0.4013	0.3661	6.9000e-004		0.0211	0.0211		0.0211	0.0211							73.7150
Total	0.1436	0.4013	0.3661	6.9000e-004		0.0211	0.0211		0.0211	0.0211							73.7150

11.0 Vegetation

Hollywood and Wilcox

Draft EIR

Appendix C-2

Greenhouse Gas Emissions Worksheets and Modeling Output Files

- Appendix C-2.1: GHG Modeling Parameters and Summary of Emissions
 - GHG Parameters and Summary
 - Land Use and Site Enhancement
 - Trip Generation
 - Parking Structure Energy Usage
 - Per Capita GHG Efficiency Target

- Appendix C-2.2: CalEEMod Outputs
 - Construction Annual
 - Baseline (Existing); Baseline (Buildout Year); Buildout

Hollywood and Wilcox

Draft EIR

Appendix C-2

Greenhouse Gas Emissions Worksheets and Modeling Output Files

- Appendix C-2.1: GHG Modeling Parameters and Summary of Emissions
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 - Trip Generation
 - Parking Structure Energy Usage
 - Per Capita GHG Efficiency Target

GHG SOURCE CALCULATIONS:

Trip Generation Rates (ADT):															
	Square Footage	Quantity	Units	ITE Trip Generation Rate (9th Edition)		Trip Reduction Credits Internal Captur Walk/Bike	TDM (%)	Total	Daily Trip Rate Buildout	CalEEMod Default			Adjusted Trips (Buildout)		
				Daily	Transit					Weekday	Saturday	Sunday	Adjustment	Sat	Sun
Buildout (Daily Trip Generation)															
Apartments (ITE# 220)	261,092	260.00	Units	6.65		Calculated within CalEEMod	15%	1,470	5.65	4.20	4.98	3.65	1.35	6.70	4.91
General Office Building (ITE# 710)	3,580	3.58	TSF	11.03		Calculated within CalEEMod	15%	34	9.38	11.03	2.46	1.05	0.85	2.09	0.89
Shopping Center (ITE#820)	11,020	11.02	TSF	42.70		Calculated within CalEEMod	15%	400	36.30	44.32	42.04	20.43	0.82	34.43	16.73
High-Turnover Restaurant (ITE# 932)	3,200	3.20	TSF	127.15		Calculated within CalEEMod	15%	346	108.08	127.15	158.37	131.84	0.85	134.61	112.06
Parking (Below 2 levels)	89,680	168	spaces	-		-	-	-	-	-	-	-	-	-	-
Parking (Above 3 levels)	96,380	252	spaces	-		-	-	-	-	-	-	-	-	-	-
Total:								2,249							
***Parking Above Grade includes 1,450 sq ft bicycle parking facility															
Baseline (Daily Trip Generation)															
General Office Building (ITE# 710)	14,880	14.88	TSF	11.03		Calculated within CalEEMod	0%	164	11.03	11.03	2.46	1.05	1.00	2.46	1.05
Shopping Center (ITE#820)	14,320	14.32	TSF	42.70		Calculated within CalEEMod	0%	611	42.70	44.32	42.04	20.43	0.96	40.50	19.68
Parking	35,900	90.00	spaces	-		-	-	-	-	-	-	-	-	-	-
Total:								776							
***Note: Trip generation rates were derived from the AB900 Traffic Assessment for the Hollywood & Wilcox Project, dated July 21, 2018, attached as Appendix D.															

ENERGY			
Calculation of Carbon Intensity Factor for Energy			
	Year		
	2017	2023	
Electricity CO2 Intensity Metric (lbs CO2 per MWh)	834	595	
CalEEMod Default N2O per MWh for LADWP	0.00617	0.00617	
CalEEMod Default CH4 per MWh for LADWP	0.029	0.029	
Electricity CO2 Intensity Metric (lbs CO2e per MWh)	836.56	597.56	
	CO2	CH4	N2O
Global Warming Potential (GWP)	1	25	298
Baseline Year Source: LADWP, 2017 Power Strategic Long-Term Resource Plan, Appendix C, Table C-1.			
Year 2023 Source: California Air Resources Board, Statewide Emission Factors (EF) for Use with AB 900 Projects, January 2017. CARB recommends use an emission factor of 595 lbs/CO2/MWh for years 2020 and beyond. Future year CO2 intensity factors were scaled proportionately based on future year renewable energy targets of 40 percent by 2024.			
Calculation of GHG Emission Reduction for PV Panels			
Annual kWh	2017	2023	
PV Size (105 KW)	158736	-43	
Solar Report included as Appendix E.			
Calculation of Parking Garage Ventilation Energy Factor			
Full Power Ventilation Flowrate:	0.5 cfm/sf	Section 120.6(c) of California Building Code, Mandatory Requirements for Enclosed Parking Garages, provides a minimum 0.15 cfm/sf flowrate. Conservatively assumed 0.5 cfm/sf.	
Fan Horsepower/1,000 sf:	0.19 hp/1,000 sf	Fan Horsepower = (CFM x Static Pressure of 1.6 in WC)/(6356 x Motor Fan Efficiency of 65%)	
Setback Mode Power Ventilation Flowrate:	0.05 cfm/sf	Energy Star technical reference recommends a minimum flow rate of 0.05 cfm/sf when fan is in setback mode.	
Fan Horsepower/1,000 sf:	0.02 hp/1,000 sf	Fan Horsepower = (CFM x Static Pressure of 1.6 in WC)/(6356 x Motor Fan Efficiency of 65%)	
Fan Horsepower/1,000 sf per Day:	1.51 hp/1,000 sf/Day	Energy Star technical reference recommends 6 hours per day at full power and 18 hours per day at 0.05 cfm/sf in setback mode.	
Horsepower to kW Conv.	0.746 kW per hp		
Fan kW/1,000 sf per Day:	1.13 kW/1,000 sf/Day		
Annual kW/sf	0.41 kW/sf Annual		
Source: Energy Star Portfolio Manger Technical Reference: Parking and the Energy Star Score in the United States and Canada, August 2018.			

GHG Emissions Reductions for Residential Uses Associated with PDF XX-XX (Electric Vehicle Charging Stations/Plugins)

	2017 (Baseline)	2023
Step 1: Estimating GHG Emissions Reduction to Replace Gasoline/Diesel Vehicle with Electric Vehicle		
LADWP Electricity Emission Factor (MTCO ₂ E/MWh) ¹	0.38	0.27
Fuel Economy of Electric Vehicle (kWh/mile) ²	0.33	0.33
Electric Vehicle GHG Emissions (grams/mile)	125.2	89.4
GHG Emissions from Residential Miles Traveled (CalEEMod) (grams/mile) ³	369.5	313.8
GHG Emissions Reduction from Additional Electric Vehicles, (grams/mile)	244.2	224.3
Step 2: Estimating Project Residential-Related VMT GHG Emissions		
Residential Average Yearly VMT with TDM and PDFs (miles/year) ⁴	1,682,165	1,682,165
Percent of Residential Miles Driven in Electric Vehicles due to this Measure ⁵	10.0%	10.0%
Residential VMT that is Displaced by Evs due to this Measure (miles/year)	168,217	168,217
GHG Emissions Reduction from Residential Electric Vehicles (MTCO ₂ E/MWh)	41	38

Notes:

- 1) CO₂ intensity factor reflects consistency with CARB, Statewide Emission Factors (EF) for Use with AB 900 Projects, January 2017.
- 2) US Department of Energy, 2013. Benefits and Considerations of Electricity as a Vehicle Fuel (Average kWh/mile). Available at: http://afdc.energy.gov/fuels/electricity_benefits.html.
- 3) CalEEMod Output file provided in Appendix C.
- 4) Residential charging of vehicles would primarily occur over night, while commercial use charging of vehicles would primarily occur during the day. In addition, it is assumed that the charging stations/plugins for residential uses would be fully utilized which is supported by the projected number of electric vehicles in the future. Bloomberg New Energy Finance projects that electric vehicles will represent 35 percent of global new car sales by 2040 (<https://about.bnef.com/blog/electric-vehicles-to-be-35-of-global-new-car-sales-by-2040/>).
- 5) 10 percent of proposed parking stalls would include EV chargers.

GHG Emissions Reductions for Commercial Uses Associated with PDF XX-X (Electric Vehicle Charging Stations/Plugins)

Step 1: Estimating GHG Emissions Reduction to Replace Gasoline/Diesel Vehicle with Electric Vehicle		
LADWP Electricity Emission Factor (MTCO ₂ E/MWh) ¹	0.38	0.27
Fuel Economy of Electric Vehicle (kWh/mile) ²	0.33	0.33
Gasoline/Diesel CO ₂ Emissions While Running (grams/mile) ³	369.5	313.8
Annual VMT Reduction per Parking Spot (miles/charging station/year) ⁴	18,250	18,250
Number of On-Site Chargers	42	42
Annual VMT Reduction All Stations/Plugins (Based on Charge)	766,500	766,500
Step 2: Estimating GHG Emissions Reduction from Installing Electric Vehicle Charging Stations/Plugins		
GHG Emissions of Gasoline/Diesel Vehicle (MTCO ₂ E/MWh)	283	240
GHG Emissions of Electric Vehicle (MTCO ₂ E/MWh)	96	69
GHG Emissions Reduction (MTCO ₂ E/MWh)	187	172

Notes:

- 1) CO₂ intensity factor reflects a 2028 RPS for LADWP (570 lbs of CO₂E/MWh).
- 2) US Department of Energy, 2013. Benefits and Considerations of Electricity as a Vehicle Fuel (Average kWh/mile). Available at: http://afdc.energy.gov/fuels/electricity_benefits.html.
- 3) CARB, 2017. EMFAC2017, running exhaust emission rate for CO₂ and CH₄ for light duty gasoline- and diesel-powered vehicles in Los Angeles, aggregated for all models and speeds, averaged over all seasons for 2023 Included as Appendix XXX.XX.
- 4) Annual VMT reduction estimated based on an estimate of 10 hours of charge time for a Level 2 charging station that charges at a rate of 25 driving range per hour. It is conservatively assumed that 20 % of the miles charged would be driven by the charged vehicles.

Hollywood and Wilcox Project
GHG Mobile Source Emissions

Project VMT								
Land Use	Average Daily Trip Rate			Unmitigated	Mitigated			
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT			
Apartments High Rise	1,469.00	1,742.00	1276.60	5,059,142	1,682,165			
Enclosed Parking with Elevator	0.00	0.00	0.00					
General Office Building	33.58	7.48	3.19	82,180	27,325			
High Turnover (Sit Down Restaurant)	345.86	430.75	358.59	490,351	163,042			
Strip Mall	400.03	379.42	184.36	696,870	231,709			
Total	2,248.47	2,559.65	1,822.74	6,328,543	2,104,241	VMT Reduction		
						VMT	Percent	
						4,224,302	66.7%	
EMFAC2017 Output - Los Angeles County - All Vehicle Categories (Gas, DSL, NG)						Project Emissions		
Year	VMT per Day	tons/day				Emission Factor (g/mi)	Project Annual VMT	Project Annual CO2e Emissions
		Sum of CO2_TOTEX	Sum of CH4_TOTEX	Sum of N2O_TOTEX	Sum of CO2E			
2017 (Baseline)	280,484,657	131,357	10.61	7.68	133,911	433.1	530,811	253
2023 (Baseline)	284,332,194	116,185	7.65	6.18	118,218	377.1	530,811	221
2023 (Buildout without PDFs)	284,332,194	116,185	7.65	6.18	118,218	377.1	6,328,543	2,631
2023 (Buildout with PDFs)	284,332,194	116,185	7.65	6.18	118,218	377.1	2,104,241	875

APPLICABLE VMT REDUCTION MEASURES Included within CalEEMod

Applicable VMT Reduction Measures selected in CalEEMod based on CAPCOA's Quantifying Greenhouse Gas Mitigation Measures, August, 2010.

LUT-1:	Increase Density LUT-1 CAPCOA measures dwellings per acre and jobs per acre . Data Needed: number of housing units per acre or jobs per acre Employees: 79 employees for Baseline and 56 employees for Buildout. Residential Units: 0 units for Baseline and 260 units (632 population) for Buildout. Acreage	Buildout #/Acre	Baseline #/Acre	40 56 186 Not Applicable 1.4	56 1.4
LUT-3	Increase Diversity of Urban and Suburban Developments (Mixed Use) (Internally calculated in CalEEMod based on mix of land uses)				
LUT-4	Improve Destination Accessibility Distance to Downtown or Job Center	Buildout	Baseline	5.5	5.5 miles
LUT-5	Increase Transit Accessibility (0.5-24.6% reduction) Distance to Transit Station	Buildout	Baseline	0.25	0.25 miles
LUT-6	Integrate Below Market Rate Housing Number of dwelling units below market rate	Buildout	Baseline	Not Applicable	Not Applicable dwelling units
LUT-8/SDT-1	Provide pedestrian Network Improvements	Buildout	Baseline	Project Site On	Not Applicable
LUT-9	Improve Walkability Design Intersections within one square mile of the Project site	Buildout	Baseline	161	161 intersections
SDT-2	Provide Traffic Calming Measures Percent of Streets with sidewalks within one square mile of the Project site Percent of intersections with crosswalks within one square mile of the Project site Number of intersections with crosswalks and/or timers	Buildout	Baseline	75 25 52	75 Percent 25 Percent 52 intersections
Total VMT Reduction for Buildout:					
Buildout with CAPCOA Measures:	6,328,543 miles				
Buildout without CAPCOA Measures:	2,104,241 miles				
Percent Reduction:	-67%				
Energy Reduction Measures Included in CalEEMod Run:					
High Efficiency Lighting (25%)					
20% reduction from LEED baseline of ASHRAE 90.1-2010 (conservatively assumed no reduction in comparison to 2016 Title 24 standards)					
Energy Star					
Water Reduction Measures Included in CalEEMod Run:					
35% below baseline requirements (Indoor)					
30% below baseline requirements (Outdoor)					
Waste Diversion Rate Reduction Measures Included in CalEEMod Run:					
Consistency with LA County Diversion Rate of 50%					
Area Source Reduction Measure Included in CalEEMod Run:					
Fireplaces would be prohibited within residential units					
Additional Measures:					
10% Parking Stalls Equipped with Charging Station/Plugin (See calculations below)					

Summary of GHG Emissions										
Project Emissions (CalEEMod)	1,295 MTCO2E/YR									
Additional Measures										
PV Size (500 kW) Approximately 15% roof area	-43 MTCO2E/YR									
.10% Parking Stalls Equipped with Charging Station/Plugin	-210 MTCO2E/YR									
Total Emissions	1,042 MTCO2E/YR									
Service Population (includes population (632) and reduction of employees (16))	609	SP								
Emissions per service population with amortized emissions	1.71									
2023 Target	3.80									
Total VMT (Buildout less Baseline (Buildout)):										
	2,104,241	Annual Vehicle Miles Travelled								
Total VMT (Buildout less Baseline (Buildout)):										
	5,765	Daily Vehicle Miles Travelled								
Service Population (includes population (632) and reduction of employees (16))	609	SP								
Total VMT per Capita (daily):	9.47 VMT/Capita (daily)									
Summary of GHG Emissions										
	Baseline (2017)	Baseline (Buildout)	Buildout-No PDFs	Buildout-PDFs	Other Reductions	Buildout-PDFs	Project	% Reductio	% Project	
Area	0	0.0	88	4		4.5	4.5	-95%		0%
Energy	196	143.3	639	589	(43)	546.4	403.1	-14%		39%
Mobile	253	220.7	2,631	875	(210)	665.2	444.5	-75%		43%
Emergency Generat	-	0.0	2	2		1.6	1.6	0%		0%
Waste	7	7.3	43	43		43.4	36.1	0%		3%
Water	28	21.3	130	86		86.1	64.7	-34%		6%
Construction	-	-	88	88		87.9	87.9	0%		8%
Total	485	393	3,621	1,688		1,435	1,042	-60%		100%

Efficiency Target Comparison

A method of analyzing the efficacy of GHG emission reductions, and thereby providing further support for the Project's consistency with the applicable GHG reduction plans and policies, is to compare the Project's emissions to a GHG efficiency target. A methodology based on an efficiency target analyzes a project's GHG emissions on a per service population basis to determine if the project achieves the identified level of GHG efficiency. This methodology recognizes that new growth can occur in a manner consistent with climate goals provided the incremental growth is appropriately efficient from a GHG emissions standpoint.¹ The service population for a project is based on the number of residents and employees generated by the project. The service population approach has been recognized by multiple air districts, including the Bay Area Air Quality Management District and San Luis Obispo County Air Pollution Control District, both of which have adopted efficiency-based GHG thresholds for 2020, and the SCAQMD, which prepared a draft efficiency target for 2020.^{2,3}

In the 2017 Update, CARB established a statewide target of six metric tons CO_{2e} per capita by 2030 and two metric tons CO_{2e} per capita by 2050. These targets represent emissions and reductions necessary to achieve the 2030 statewide target under SB 32 and 2050 target under S-3-05.⁴ The CARB per capita targets account for all emissions state-wide which include different sectors such as transportation, industrial, electricity generation, agriculture, commercial and residential uses. To derive the per CARB per capita targets, the total emissions are then divided by the total population of the State.

CARB recommends that local governments develop community-wide GHG emissions reduction goals necessary to reach 2030 and 2050 climate goals. Reduction goals are recommended to be expressed in mass emissions, per capita emissions, and service population emissions such as the six metric ton CO_{2e} per capita by 2030 and

¹ See *Center for Biological Diversity v. California Department of Fish and Wildlife and Newhall Land and Farming*, 62 Cal. 4th 204, 220 (2015) ("For projects, like the present residential and commercial development, which are designed to accommodate long-term growth in California's population and economic activity, this fact gives rise to an argument that a certain amount of greenhouse gas emissions is as inevitable as population growth. Under this view, a significance criterion framed in terms of efficiency is superior to a simple numerical threshold because CEQA is not intended as a population control measure.")

² See *Bay Area AQMD's Air Quality Guidelines, Section 2.2*, 2017; *San Luis Obispo County Air Pollution Control District, Greenhouse Gas Thresholds and Supporting Evidence, Section 2.2.3 Efficiency-Based Threshold for Land Use Projects*, March 28, 2012.

³ *SCAQMD Greenhouse Gas CEQA Significance Threshold Stakeholder Working Group #15*, September 28, 2010.

⁴ CARB, *California's 2017 Climate Change Scoping Plan*, November 2017, p. 99.

two metric tons CO₂e per capita by 2050 as discussed above.⁵ Once adopted, the community-wide GHG reduction plans could serve as a performance metric for project level analyses.

Although the City has not yet adopted a GHG reduction plan, the use of per capita efficiency metric could be used as an indicator of a project's consistency with SB 32 and S-3-05 targets.

Applied here, the efficiency target for the Project (a mixed-use development with residential and commercial components) was initially based on the AB 32 GHG reduction target and GHG emissions inventory prepared for CARB's Scoping Plan. As discussed above, the CARB per capita target established in the Scoping Plan is based on state-wide emissions which include sectors which may not be applicable to the Project (agriculture, industrial). It should be noted that the CARB per capita target is based solely on population data while the efficiency target used by the various air agencies is based on service population which takes into account both population and employment numbers.

To develop the efficiency metric for 2023 (Project Buildout Year), land use-related sectors in the 2017 Update GHG inventory were identified and separated for an inventory specific to land use projects and then divided by the estimated state population and employment figures consistent with the service population target used by the various air districts.^{6,7} Non land use GHG emissions associated with industrial uses, agriculture and forestry, ships and commercial boats, aviation, and rail transport were excluded from the land use-related (i.e., residential and commercial) emissions inventory. In other words, sources that would not be included in the Project GHG emission estimates were not included in the development of the GHG efficiency threshold.

When determining reductions necessary to achieve 2030 GHG targets, the 2017 Update takes into account existing measures or those required by statute which are identified as "known commitments". However, the 2017 Update also concludes that even when accounting for "known commitments", statewide GHG emissions would not achieve the 2030 targets unless further action is taken to reduce GHGs. Consequently,

⁵ CARB, *California's 2017 Climate Change Scoping Plan*, November 2017, p. 101.

⁶ *The methodology of using a project-level efficiency target based on the Scoping Plan to evaluate potential GHG impacts is supported by AQMDs (e.g., Bay Area AQMD's Air Quality Guidelines, 2017 and SCAQMD's Greenhouse Gas CEQA Significance Threshold Stakeholder Working Group Meeting #15, 2010).*

⁷ *Project design features are based on relevant year 2020 targets established by AB 32 and the current CARB Scoping Plan Update.*

the *Climate Change Scoping Plan* also takes into account the Post-2020 Cap-and-Trade Program, pursuant to AB 398, to achieve additional reductions to ensure that the 2030 target is achieved. The Post-2020 Cap-and-Trade Program has not allocated necessary reductions to specific sectors which it covers. Sectors which are subject to the Post-2020 Cap-and-Trade Program such as industrial and power generation sectors are not associated with land use projects,

As a conservative assumption, it was assumed that land-use related sectors would also be responsible for achieving reductions beyond “known commitments”. When calculating the efficiency target, it was assumed that land-use related sectors would be responsible on a proportional basis for the additional reductions achieved by the Post-2020 Cap-and-Trade Program.

Accordingly, the statewide efficiency target for 2023 is calculated as 3.8 MTCO₂e per service population per year. This target was estimated based on the 2017 Update GHG emissions data and targets for land-use related sectors and dividing the resultant value by the projected population and employment for the Project buildout year. This GHG efficiency metric allows evaluation of the Project’s GHG efficiency in comparison to the targets as well as consistency with the 2017 Update.

CARB Scoping Plan - GHG Emissions Data (2017)

Service Population - Efficiency Calculation

Service Population Calculation	
Year	2023
City of LA Population ^a	4,068,475
City of LA Employment ^b	1,832,577
City of LA Service Population	5,901,052
State Population ^c	41,667,586
State Employment ^d	19,461,950
State Service Population	61,129,536
City vs. State Population	9.7%

1. Statewide GHG Emissions^e

Energy Emissions	
Sector	MMT CO2/Year
Agriculture	7.5
Commercial	34.9
Industrial	32.8
Oil & Gas Extraction	20.2
Petroleum Refining	33.2
Residential	45.1
TCU	5.2
Transportation	133.1
Total	312.1
Non-Energy Emissions	
Sector	MMT CO2/Year
Cement	5.1
Waste	10.2
Petroleum Refining	0.5
Oil Extraction Fugitive Emissions	1.4
Electricity Generation Fugitive and Process Emissions	0.7
Pipeline Fugitive Emissions	3.1
Agriculture: Enteric	10.9
Agriculture: Soil Emissions	7.1
Agriculture: Manure	9.1
Agriculture: Other	1.0
Fgas: RES	3.8
Fgas: COM	7.8
Fgas: IND	2.3
Fgas: LDV	1.1
Fgas: HDV	1.0
Fgas: Other trans	0.2
Fgas: Electricity	0.1
Land: Use change	0.0
Total	65.6
Grand Total	377.6

3. Scoping Plan GHG Emissions - Land Use Only Sectors

Sector	MMT CO2/Year
Energy	
Commercial	34.9
Residential	45.1
TCU	5.2
Transportation	133.1
Non-Energy	
Waste	10.2
Total	228.5
Scoping Plan - Emissions per SP (Land Use Only)	3.7

4. GHG Emissions Target - Land Use Only Sectors

Scoping Plan Emissions (All Sectors)	377.6
2023 Target	379.3
Scoping Plan vs Target (Gap)	-1.7
Percent Difference (Scoping Plan vs. Target Gap)	-0.4%
2023 Target - Emissions per SP (Land Use Only)	3.8

^a SCAG 2016-2040 RTP/SCS. Demographics and Growth Forecast Appendix. Table 11. April 2016.

^b SCAG 2016-2040 RTP/SCS. Demographics and Growth Forecast Appendix. Table 11. April 2016.

^c California Employment Development Department Statewide Employment Projections: <http://www.labormarketinfo.edd.ca.gov/data/employment-projections.html>. Accessed March 2018

^d California's 2017 Climate Change Scoping Plan. PATHWAYS Output Tool Data. California Air Resources Board. November 2017

^e California's 2017 Climate Change Scoping Plan. PATHWAYS Output Tool Data (Statewide Data). California Air Resources Board. November 2017

^f California's 2017 Climate Change Scoping Plan. PATHWAYS Output Tool Data (Los Angeles Department of Water and Power). California Air Resources Board. November 2017

Hollywood and Wilcox

Draft EIR

Appendix C-2

Greenhouse Gas Emissions Worksheets and
Modeling Output Files

- Appendix C-2.2: CalEEMod Outputs
 - Construction Annual
 - Baseline (Existing); Baseline (Buildout Year); Buildout

Hollywood and Wilcox (Construction) - South Coast Air Basin, Annual

Hollywood and Wilcox (Construction)
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.58	1000sqft	0.00	3,580.00	0
Enclosed Parking with Elevator	168.00	Space	0.00	89,680.00	0
Unenclosed Parking Structure	252.00	Space	0.00	96,380.00	0
High Turnover (Sit Down Restaurant)	3.20	1000sqft	0.00	3,200.00	0
Apartments High Rise	260.00	Dwelling Unit	1.40	261,092.00	744
Strip Mall	11.02	1000sqft	0.00	11,020.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment -
- Off-road Equipment - see Construction Assumptions
- Off-road Equipment - see Construction Assumptions
- Trips and VMT - see Construction Assumptions 8,586
- Demolition - see Construction Assumptions
- Grading - see Construction Assumptions
- Vehicle Trips -
- Construction Off-road Equipment Mitigation -
- Architectural Coating -
- Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	11164	10080
tblAreaCoating	Area_Residential_Exterior	176237	175500
tblAreaCoating	Area_Residential_Interior	528711	526500
tblConstructionPhase	NumDays	10.00	260.00
tblConstructionPhase	NumDays	200.00	39.00

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripNumber	165.00	400.00
tblTripsAndVMT	HaulingTripNumber	7,250.00	8,286.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	61.00	88.00
tblTripsAndVMT	VendorTripNumber	61.00	29.00
tblTripsAndVMT	VendorTripNumber	61.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHTD
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHTD
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHTD
tblTripsAndVMT	WorkerTripNumber	15.00	24.00
tblTripsAndVMT	WorkerTripNumber	28.00	100.00
tblTripsAndVMT	WorkerTripNumber	271.00	300.00
tblTripsAndVMT	WorkerTripNumber	271.00	500.00
tblTripsAndVMT	WorkerTripNumber	271.00	250.00
tblTripsAndVMT	WorkerTripNumber	54.00	50.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021																1,555.6117
2022																1,082.3270
Maximum																1,555.6117

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/31/2021	5	21	
2	Shoring / Excavation	Grading	2/1/2021	5/24/2021	5	81	
3	Foundation / Below Grade Parking	Building Construction	5/25/2021	7/16/2021	5	39	

4	Tower Construction	Building Construction	7/17/2021	4/15/2022	5	195
5	Interior Finishes	Building Construction	11/1/2021	12/31/2022	5	305
6	Architectural Coating	Architectural Coating	1/1/2022	12/31/2022	5	260
7	Hardscape / Landscaping	Paving	9/1/2022	12/31/2022	5	87

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 528,711; Residential Outdoor: 176,237; Non-Residential Indoor: 26,700; Non-Residential Outdoor: 8,900; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Shoring / Excavation	Air Compressors	1	8.00	78	0.48
Shoring / Excavation	Bore/Drill Rigs	2	8.00	221	0.50
Shoring / Excavation	Cranes	1	8.00	231	0.29
Shoring / Excavation	Excavators	1	8.00	158	0.38
Shoring / Excavation	Graders	0	8.00	187	0.41
Shoring / Excavation	Plate Compactors	1	8.00	8	0.43
Shoring / Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Shoring / Excavation	Rubber Tired Loaders	1	8.00	203	0.36
Shoring / Excavation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Shoring / Excavation	Welders	4	8.00	46	0.45
Foundation / Below Grade Parking	Cranes	1	8.00	231	0.29
Foundation / Below Grade Parking	Excavators	0	8.00	158	0.38
Foundation / Below Grade Parking	Forklifts	2	8.00	89	0.20
Foundation / Below Grade Parking	Generator Sets	2	8.00	84	0.74
Foundation / Below Grade Parking	Graders	0	8.00	187	0.41
Foundation / Below Grade Parking	Plate Compactors	2	8.00	8	0.43
Foundation / Below Grade Parking	Pumps	1	8.00	84	0.74
Foundation / Below Grade Parking	Rubber Tired Dozers	0	8.00	247	0.40
Foundation / Below Grade Parking	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Foundation / Below Grade Parking	Welders	0	8.00	46	0.45
Tower Construction	Cranes	0	8.00	231	0.29
Tower Construction	Forklifts	2	8.00	89	0.20
Tower Construction	Generator Sets	0	8.00	84	0.74
Tower Construction	Pumps	2	8.00	84	0.74
Tower Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Tower Construction	Welders	6	8.00	46	0.45
Interior Finishes	Aerial Lifts	3	8.00	63	0.31
Interior Finishes	Air Compressors	3	8.00	78	0.48
Interior Finishes	Cranes	1	8.00	231	0.29
Interior Finishes	Forklifts	2	8.00	89	0.20
Interior Finishes	Generator Sets	0	8.00	84	0.74
Interior Finishes	Pavers	0	8.00	130	0.42

Vendor																	55.3174
Worker																	56.0018
Total																	111.3192

3.5 Tower Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road																	152.1428
Total																	152.1428

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling																	0.0000
Vendor																	56.0911
Worker																	287.1887
Total																	343.2798

3.5 Tower Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road																	95.0743
Total																	95.0743

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Hauling																0.0000
Vendor																34.6583
Worker																173.0565
Total																207.7148

3.6 Interior Finishes - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road																	50.6462
Total																	50.6462

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling																	0.0000
Vendor																	1.6416
Worker																	53.8479
Total																	55.4895

3.6 Interior Finishes - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road																	292.6218
Total																	292.6218

Unmitigated Construction Off-Site

Hollywood and Wilcox (Operations) - Baseline - Los Angeles-South Coast County, Annual

Hollywood and Wilcox (Operations) - Baseline
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.88	1000sqft	1.40	14,880.00	0
Parking Lot	35.90	1000sqft	0.00	35,900.00	0
Strip Mall	14.32	1000sqft	0.00	14,320.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2017
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	834	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP 2016 CO2 Intensity Factor - 834 lbs/MWh

Land Use - Site Specific Acreage

Construction Phase - see Construction Assumptions

Off-road Equipment - see Construction Assumptions

Off-road Equipment - see Construction Assumptions

Trips and VMT - see Construction Assumptions 8,586

Demolition - see Construction Assumptions

Grading - see Construction Assumptions

Vehicle Trips - see Traffic Study

Woodstoves - No hearths

Energy Use - Historic Data

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.34	1.40
tblLandUse	LotAcreage	0.82	0.00
tblLandUse	LotAcreage	0.33	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	834
tblVehicleTrips	ST_TR	42.04	40.50
tblVehicleTrips	SU_TR	20.43	19.69
tblVehicleTrips	WD_TR	44.32	42.70

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																1.7300e-003
Energy																196.0871
Mobile																721.7884
Waste																14.5238
Water																32.9243
Total																965.3253

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																1.7300e-003
Energy																196.0871
Mobile																294.0813
Waste																7.2619
Water																28.2542
Total																525.6862

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.54

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated																	294.0813
Unmitigated																	721.7884

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	164.13	36.60	15.62	401,698	145,354
Parking Lot	0.00	0.00	0.00		
Strip Mall	611.46	579.96	281.96	1,065,247	385,457
Total	775.59	616.56	297.58	1,466,945	530,811

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547512	0.046663	0.198227	0.127154	0.018333	0.005870	0.017956	0.026928	0.002295	0.002753	0.004678	0.000662	0.000968
Parking Lot	0.547512	0.046663	0.198227	0.127154	0.018333	0.005870	0.017956	0.026928	0.002295	0.002753	0.004678	0.000662	0.000968
Strip Mall	0.547512	0.046663	0.198227	0.127154	0.018333	0.005870	0.017956	0.026928	0.002295	0.002753	0.004678	0.000662	0.000968

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated																	184.7513
Electricity Unmitigated																	184.7513
Natural Gas Mitigated																	11.3358
Natural Gas Unmitigated																	11.3358

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	185107																9.9367
Parking Lot	0																0.0000
Strip Mall	26062.4																1.3991
Total																	11.3358

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	185107																9.9367
Parking Lot	0																0.0000
Strip Mall	26062.4																1.3991
Total																	11.3358

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	226771				86.0451
Parking Lot	31592				11.9871
Strip Mall	228547				86.7190
Total					184.7513

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	226771				86.0451
Parking Lot	31592				11.9871
Strip Mall	228547				86.7190
Total					184.7513

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated																	1.7300e-003
Unmitigated																	1.7300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	1.7300e-003
Total																	1.7300e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	1.7300e-003
Total																	1.7300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				28.2542
Unmitigated				32.9243

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.64468 / 1.62093				23.4993
Parking Lot	0 / 0				0.0000
Strip Mall	1.06072 / 0.650118				9.4250
Total					32.9243

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.11574 / 1.62093				20.1661
Parking Lot	0 / 0				0.0000
Strip Mall	0.348575 / 0.650118				8.0881
Total					28.2542

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated				7.2619
Unmitigated				14.5238

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	M1/yr			
General Office Building	13.84				6.9602
Parking Lot	0				0.0000
Strip Mall	15.04				7.5636
Total					14.5238

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	M1/yr			
General Office Building	6.92				3.4801
Parking Lot	0				0.0000
Strip Mall	7.52				3.7818
Total					7.2619

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Hollywood and Wilcox (Operations) - Baseline Buildout - Los Angeles-South Coast County, Annual

Hollywood and Wilcox (Operations) - Baseline Buildout
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.88	1000sqft	1.40	14,880.00	0
Parking Lot	35.90	1000sqft	0.00	35,900.00	0
Strip Mall	14.32	1000sqft	0.00	14,320.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	595	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Consistency with AB 900 Application

Land Use - Site Specific Acreage

Vehicle Trips - see Traffic Study

Woodstoves - No hearths

Energy Use - Historic Data

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.34	1.40
tblLandUse	LotAcreage	0.82	0.00
tblLandUse	LotAcreage	0.33	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	595
tblVehicleTrips	ST_TR	42.04	40.50
tblVehicleTrips	SU_TR	20.43	19.69
tblVehicleTrips	WD_TR	44.32	42.70

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1220	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.7200e-003
Energy	1.1400e-003	0.0104	8.7000e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004						143.3018
Mobile	0.1606	0.7031	1.8758	6.7100e-003	0.5568	5.1900e-003	0.5620		4.8200e-003	0.1541						621.9604
Waste						0.0000	0.0000		0.0000	0.0000						14.5238
Water						0.0000	0.0000		0.0000	0.0000						24.9586
Total	0.2837	0.7134	1.8853	6.7700e-003	0.5568	5.9800e-003	0.5627		5.6100e-003	0.1549						804.7463

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1220	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.7200e-003
Energy	1.1400e-003	0.0104	8.7000e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004						143.3018
Mobile	0.1241	0.5043	0.9633	2.7800e-003	0.2015	2.3200e-003	0.2038		2.1600e-003	0.0562						258.0772
Waste						0.0000	0.0000		0.0000	0.0000						7.2619
Water						0.0000	0.0000		0.0000	0.0000						21.3345
Total	0.2472	0.5146	0.9728	2.8400e-003	0.2015	3.1100e-003	0.2046		2.9500e-003	0.0570						429.9772

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	12.85	27.87	48.40	58.05	63.82	47.99	63.65	0.00	47.42	63.22	0.00	0.00	0.00	0.00	0.00	46.57

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1241	0.5043	0.9633	2.7800e-003	0.2015	2.3200e-003	0.2038		2.1600e-003	0.0562						258.0772

Unmitigated	0.1606	0.7031	1.8758	6.7100e-003	0.5568	5.1900e-003	0.5620		4.8200e-003	0.1541								621.9604
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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	164.13	36.60	15.62	401,698	145,354
Parking Lot	0.00	0.00	0.00		
Strip Mall	611.46	579.96	281.96	1,065,247	385,457
Total	775.59	616.56	297.58	1,466,945	530,811

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHH	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Parking Lot	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Strip Mall	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						131.9660
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						131.9660
NaturalGas Mitigated	1.1400e-003	0.0104	8.7000e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004						11.3358
NaturalGas Unmitigated	1.1400e-003	0.0104	8.7000e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004						11.3358

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	185107	1.0000e-003	9.0700e-003	7.6200e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004						9.9367
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000

Strip Mall	26062.4	1.4000e-004	1.2800e-003	1.0700e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004						1.3991
Total		1.1400e-003	0.0104	8.6900e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004						11.3358

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
General Office Building	185107	1.0000e-003	9.0700e-003	7.6200e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004							9.9367
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Strip Mall	26062.4	1.4000e-004	1.2800e-003	1.0700e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004							1.3991
Total		1.1400e-003	0.0104	8.6900e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004							11.3358

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	226771				61.4612
Parking Lot	31592				8.5623
Strip Mall	228547				61.9425
Total					131.9660

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	226771				61.4612
Parking Lot	31592				8.5623
Strip Mall	228547				61.9425
Total					131.9660

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	0.1220	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.7200e-003
Unmitigated	0.1220	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.7200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.0140					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	0.1078					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	8.0000e-005	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.7200e-003
Total	0.1219	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.7200e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.0140					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	0.1078					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	8.0000e-005	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.7200e-003
Total	0.1219	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.7200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				21.3345

Unmitigated				24.9586
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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.64468 / 1.62093				17.8138
Parking Lot	0 / 0				0.0000
Strip Mall	1.06072 / 0.650118				7.1447
Total					24.9586

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.11574 / 1.62093				15.2272
Parking Lot	0 / 0				0.0000
Strip Mall	0.848575 / 0.650118				6.1073
Total					21.3345

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				7.2619
Unmitigated				14.5238

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	13.84				6.9602
Parking Lot	0				0.0000
Strip Mall	15.04				7.5636
Total					14.5238

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	6.92				3.4801
Parking Lot	0				0.0000
Strip Mall	7.52				3.7818
Total					7.2619

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Hollywood and Wilcox (Operations 2023) - Los Angeles-South Coast County, Annual

Hollywood and Wilcox (Operations 2023)
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.58	1000sqft	0.00	3,580.00	0
Enclosed Parking with Elevator	168.00	Space	0.00	89,680.00	0
Unenclosed Parking with Elevator	252.00	Space	0.00	96,380.00	0
High Turnover (Sit Down Restaurant)	3.20	1000sqft	0.00	3,200.00	0
Apartments High Rise	260.00	Dwelling Unit	1.40	261,092.00	744
Strip Mall	11.02	1000sqft	0.00	11,020.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	595	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CARB EF for Year 2023
- Land Use - Total acreage equals 1.4 acres. Site specific square footage.
- Vehicle Trips - see Traffic Study
- Woodstoves - No wood fireplaces or hearths
- Energy Use - see parking structure energy calculations
- Construction Off-road Equipment Mitigation -
- Mobile Land Use Mitigation -
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -
- Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	3.92	0.41
tblLandUse	LandUseSquareFeet	67,200.00	89,680.00
tblLandUse	LandUseSquareFeet	100,800.00	96,380.00
tblLandUse	LandUseSquareFeet	260,000.00	261,092.00
tblLandUse	LotAcreage	0.08	0.00
tblLandUse	LotAcreage	1.51	0.00
tblLandUse	LotAcreage	2.27	0.00
tblLandUse	LotAcreage	0.07	0.00
tblLandUse	LotAcreage	4.19	1.40
tblLandUse	LotAcreage	0.25	0.00

Total																		1,720.9278
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e		
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.98		

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated																986.6565
Unmitigated																2,628.6778

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments High Rise	1,469.00	1,742.00	1276.60	5,059,142	1,682,165
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	33.58	7.48	3.19	82,180	27,325
High Turnover (Sit Down Restaurant)	345.86	430.75	358.59	490,351	163,042
Strip Mall	400.03	379.42	184.36	696,870	231,709
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,248.46	2,559.65	1,822.74	6,328,543	2,104,241

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
High Turnover (Sit Down Restaurant)	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Strip Mall	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unenclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated																	427.4544
Electricity Unmitigated																	478.0565
Natural Gas Mitigated																	171.2516
Natural Gas Unmitigated																	171.2516

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	2.3964e+06																128.6412
Enclosed Parking with Elevator	0																0.0000
General Office Building	37267.8																2.0006
High Turnover (Sit Down Restaurant)	738432																39.6397
Strip Mall	18072.8																0.9702
Unenclosed Parking with Elevator	0																0.0000
Total																	171.2516

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated																4.4967
Unmitigated																87.8015

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating																0.0000
Consumer Products																0.0000
Hearth																83.3048
Landscaping																4.4967
Total																87.8015

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating																0.0000
Consumer Products																0.0000
Hearth																0.0000
Landscaping																4.4967
Total																4.4967

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				86.0683
Unmitigated				129.7185

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	16.94 / 10.6796				114.9978
Enclosed Parking with Elevator	0 / 0				0.0000
General Office Building	0.636287 / 0.389982				4.2859
High Turnover (Sit Down Restaurant)	0.971308 / 0.0619984				4.9366
Strip Mall	0.816279 / 0.5003				5.4982
Unenclosed Parking with Elevator	0 / 0				0.0000
Total					129.7185

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	11.011 / 7.47572				76.3565
Enclosed Parking with Elevator	0 / 0				0.0000
General Office Building	0.413586 / 0.272988				2.8445
High Turnover (Sit Down Restaurant)	0.63135 / 0.0433989				3.2181
Strip Mall	0.530581 / 0.35021				3.6492
Unenclosed Parking with Elevator	0 / 0				0.0000
Total					86.0683

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				43.3954
Unmitigated				86.7907

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	119.6				60.1470
Enclosed Parking with Elevator	0				0.0000
General Office Building	3.33				1.6747
High Turnover (Sit Down Restaurant)	38.08				19.1505
Strip Mall	11.57				5.8186
Unenclosed Parking with Elevator	0				0.0000
Total					86.7907

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	59.8				30.0735
Enclosed Parking with Elevator	0				0.0000
General Office Building	1.665				0.8373
High Turnover (Sit Down Restaurant)	19.04				9.5752
Strip Mall	5.785				2.9093
Unenclosed Parking with Elevator	0				0.0000
Total					43.3954

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.25	12	350	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	tons/yr										MT/yr						
Emergency Generator - Diesel (200,000 HP)																	1.6050
Total																	1.6050

11.0 Vegetation