

Appendix B

AQ, Energy, and GHG Modeling Data

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Annual

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Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	116.00	Space	1.04	46,400.00	0
City Park	6.00	Acre	6.00	261,360.00	0
Racquet Club	64.44	1000sqft	1.48	64,444.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	597.07	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Based on 2017 RPS.

Land Use - Based on applicant provided information.

Construction Phase - Operation only.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Operation only.

Trips and VMT - Operation only.

On-road Fugitive Dust -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Based on traffic report.

Woodstoves -

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	1.00
tblLandUse	LandUseSquareFeet	64,440.00	64,444.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	597.07
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	WorkerTripNumber	156.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	21.35	35.21
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	17.40	28.69
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	14.03	23.14

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	0.2691	2.0000e-005	2.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6300e-003	4.6300e-003	1.0000e-005	0.0000	4.9400e-003
Energy	6.2900e-003	0.0572	0.0480	3.4000e-004		4.3500e-003	4.3500e-003		4.3500e-003	4.3500e-003	0.0000	260.3735	260.3735	0.0108	3.1300e-003	261.5773
Mobile	0.5317	2.4622	6.1136	0.0173	1.2796	0.0204	1.3000	0.3431	0.0192	0.3622	0.0000	1,589.5870	1,589.5870	0.0995	0.0000	1,592.0734
Waste						0.0000	0.0000		0.0000	0.0000	74.6662	0.0000	74.6662	4.4126	0.0000	184.9823
Water						0.0000	0.0000		0.0000	0.0000	1.2091	41.9784	43.1876	0.1262	3.3500e-003	47.3428
Total	0.8071	2.5194	6.1640	0.0176	1.2796	0.0248	1.3044	0.3431	0.0235	0.3666	75.8753	1,891.9436	1,967.8189	4.6492	6.4800e-003	2,085.9807

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2.2 Overall Operational

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	0.2691	2.0000e-005	2.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6300e-003	4.6300e-003	1.0000e-005	0.0000	4.9400e-003
Energy	6.2900e-003	0.0572	0.0480	3.4000e-004		4.3500e-003	4.3500e-003		4.3500e-003	4.3500e-003	0.0000	260.3735	260.3735	0.0108	3.1300e-003	261.5773
Mobile	0.5317	2.4622	6.1136	0.0173	1.2796	0.0204	1.3000	0.3431	0.0192	0.3622	0.0000	1,589.5870	1,589.5870	0.0995	0.0000	1,592.0734
Waste						0.0000	0.0000		0.0000	0.0000	74.6662	0.0000	74.6662	4.4126	0.0000	184.9823
Water						0.0000	0.0000		0.0000	0.0000	1.2091	41.9784	43.1876	0.1262	3.3500e-003	47.3428
Total	0.8071	2.5194	6.1640	0.0176	1.2796	0.0248	1.3044	0.3431	0.0235	0.3666	75.8753	1,891.9436	1,967.8189	4.6492	6.4800e-003	2,085.9807

	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	Building Construction	Building Construction	7/10/2020	7/10/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 1.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

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
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Building Construction - 2020

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	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	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	0.5317	2.4622	6.1136	0.0173	1.2796	0.0204	1.3000	0.3431	0.0192	0.3622	0.0000	1,589.5870	1,589.5870	0.0995	0.0000	1,592.0734
Unmitigated	0.5317	2.4622	6.1136	0.0173	1.2796	0.0204	1.3000	0.3431	0.0192	0.3622	0.0000	1,589.5870	1,589.5870	0.0995	0.0000	1,592.0734

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Racquet Club	1,490.91	2,268.93	1848.78	3,371,233	3,371,233
Total	1,490.91	2,268.93	1,848.78	3,371,233	3,371,233

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Parking Lot	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Racquet Club	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

Historical Energy Use: N

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	0.0000	198.1280	198.1280	9.6200e-003	1.9900e-003	198.9619
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	198.1280	198.1280	9.6200e-003	1.9900e-003	198.9619
NaturalGas Mitigated	6.2900e-003	0.0572	0.0480	3.4000e-004		4.3500e-003	4.3500e-003		4.3500e-003	4.3500e-003	0.0000	62.2455	62.2455	1.1900e-003	1.1400e-003	62.6154
NaturalGas Unmitigated	6.2900e-003	0.0572	0.0480	3.4000e-004		4.3500e-003	4.3500e-003		4.3500e-003	4.3500e-003	0.0000	62.2455	62.2455	1.1900e-003	1.1400e-003	62.6154

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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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	1.16644e+006	6.2900e-003	0.0572	0.0480	3.4000e-004		4.3500e-003	4.3500e-003		4.3500e-003	4.3500e-003	0.0000	62.2455	62.2455	1.1900e-003	1.1400e-003	62.6154
Total		6.2900e-003	0.0572	0.0480	3.4000e-004		4.3500e-003	4.3500e-003		4.3500e-003	4.3500e-003	0.0000	62.2455	62.2455	1.1900e-003	1.1400e-003	62.6154

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
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	1.16644e+006	6.2900e-003	0.0572	0.0480	3.4000e-004		4.3500e-003	4.3500e-003		4.3500e-003	4.3500e-003	0.0000	62.2455	62.2455	1.1900e-003	1.1400e-003	62.6154
Total		6.2900e-003	0.0572	0.0480	3.4000e-004		4.3500e-003	4.3500e-003		4.3500e-003	4.3500e-003	0.0000	62.2455	62.2455	1.1900e-003	1.1400e-003	62.6154

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	16240	4.3982	2.1000e-004	4.0000e-005	4.4167
Racquet Club	715328	193.7298	9.4100e-003	1.9500e-003	194.5452
Total		198.1280	9.6200e-003	1.9900e-003	198.9619

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	16240	4.3982	2.1000e-004	4.0000e-005	4.4167
Racquet Club	715328	193.7298	9.4100e-003	1.9500e-003	194.5452
Total		198.1280	9.6200e-003	1.9900e-003	198.9619

6.0 Area Detail

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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	0.2691	2.0000e-005	2.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6300e-003	4.6300e-003	1.0000e-005	0.0000	4.9400e-003
Unmitigated	0.2691	2.0000e-005	2.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6300e-003	4.6300e-003	1.0000e-005	0.0000	4.9400e-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	0.0305					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2383					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6300e-003	4.6300e-003	1.0000e-005	0.0000	4.9400e-003
Total	0.2691	2.0000e-005	2.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6300e-003	4.6300e-003	1.0000e-005	0.0000	4.9400e-003

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6.2 Area by SubCategory

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	0.0305					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2383					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6300e-003	4.6300e-003	1.0000e-005	0.0000	4.9400e-003
Total	0.2691	2.0000e-005	2.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6300e-003	4.6300e-003	1.0000e-005	0.0000	4.9400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	43.1876	0.1262	3.3500e-003	47.3428
Unmitigated	43.1876	0.1262	3.3500e-003	47.3428

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 7.14889	21.5102	1.0400e-003	2.2000e-004	21.6007
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	3.81118 / 2.33589	21.6774	0.1252	3.1400e-003	25.7421
Total		43.1876	0.1262	3.3600e-003	47.3428

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 7.14889	21.5102	1.0400e-003	2.2000e-004	21.6007
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	3.81118 / 2.33589	21.6774	0.1252	3.1400e-003	25.7421
Total		43.1876	0.1262	3.3600e-003	47.3428

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	74.6662	4.4126	0.0000	184.9823
Unmitigated	74.6662	4.4126	0.0000	184.9823

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.52	0.1056	6.2400e-003	0.0000	0.2615
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	367.31	74.5606	4.4064	0.0000	184.7208
Total		74.6662	4.4127	0.0000	184.9823

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.52	0.1056	6.2400e-003	0.0000	0.2615
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	367.31	74.5606	4.4064	0.0000	184.7208
Total		74.6662	4.4127	0.0000	184.9823

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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Commerce Modelo - Existing Site - Los Angeles-South Coast County, Annual

11.0 Vegetation

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

Commerce Modelo - Existing Site
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	116.00	Space	1.04	46,400.00	0
City Park	6.00	Acre	6.00	261,360.00	0
Racquet Club	64.44	1000sqft	1.48	64,444.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	597.07	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

Project Characteristics - Based on 2017 RPS.

Land Use - Based on applicant provided information.

Construction Phase - Operation only.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Operation only.

Trips and VMT - Operation only.

On-road Fugitive Dust -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Based on traffic report.

Woodstoves -

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	1.00
tblLandUse	LandUseSquareFeet	64,440.00	64,444.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	597.07
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	WorkerTripNumber	156.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	21.35	35.21
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	17.40	28.69
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	14.03	23.14

2.0 Emissions Summary

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

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	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436
Energy	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008
Mobile	4.2421	17.8695	46.9715	0.1349	9.8397	0.1534	9.9931	2.6338	0.1441	2.7779		13,701.6477	13,701.6477	0.8282		13,722.3532
Total	5.7515	18.1829	47.2539	0.1368	9.8397	0.1773	10.0170	2.6338	0.1680	2.8017		14,077.6552	14,077.6552	0.8355	6.8900e-003	14,100.5976

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	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436
Energy	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008
Mobile	4.2421	17.8695	46.9715	0.1349	9.8397	0.1534	9.9931	2.6338	0.1441	2.7779		13,701.6477	13,701.6477	0.8282		13,722.3532
Total	5.7515	18.1829	47.2539	0.1368	9.8397	0.1773	10.0170	2.6338	0.1680	2.8017		14,077.6552	14,077.6552	0.8355	6.8900e-003	14,100.5976

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

	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	Building Construction	Building Construction	7/10/2020	7/10/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

Trips and VMT

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

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
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2020

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

3.2 Building Construction - 2020

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

3.2 Building Construction - 2020

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

	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	4.2421	17.8695	46.9715	0.1349	9.8397	0.1534	9.9931	2.6338	0.1441	2.7779		13,701.6477	13,701.6477	0.8282		13,722.3532
Unmitigated	4.2421	17.8695	46.9715	0.1349	9.8397	0.1534	9.9931	2.6338	0.1441	2.7779		13,701.6477	13,701.6477	0.8282		13,722.3532

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Racquet Club	1,490.91	2,268.93	1848.78	3,371,233	3,371,233
Total	1,490.91	2,268.93	1,848.78	3,371,233	3,371,233

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9

4.4 Fleet Mix

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Parking Lot	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Racquet Club	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008
NaturalGas Unmitigated	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	3195.72	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008
Total		0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008

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
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	3.19572	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008
Total		0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008

6.0 Area Detail

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

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	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436
Unmitigated	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436

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	0.1672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8200e-003	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436
Total	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

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	0.1672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8200e-003	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436
Total	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Summer

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

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

Commerce Modelo - Existing Site
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	116.00	Space	1.04	46,400.00	0
City Park	6.00	Acre	6.00	261,360.00	0
Racquet Club	64.44	1000sqft	1.48	64,444.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	597.07	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

Project Characteristics - Based on 2017 RPS.

Land Use - Based on applicant provided information.

Construction Phase - Operation only.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Operation only.

Trips and VMT - Operation only.

On-road Fugitive Dust -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Based on traffic report.

Woodstoves -

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	1.00
tblLandUse	LandUseSquareFeet	64,440.00	64,444.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	597.07
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	WorkerTripNumber	156.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	21.35	35.21
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	17.40	28.69
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	14.03	23.14

2.0 Emissions Summary

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

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	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436
Energy	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008
Mobile	4.1355	18.2285	45.7286	0.1281	9.8397	0.1549	9.9946	2.6338	0.1455	2.7793		13,014.87 19	13,014.87 19	0.8326		13,035.68 74
Total	5.6449	18.5420	46.0110	0.1300	9.8397	0.1788	10.0185	2.6338	0.1694	2.8032		13,390.87 94	13,390.87 94	0.8399	6.8900e-003	13,413.93 17

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	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436
Energy	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008
Mobile	4.1355	18.2285	45.7286	0.1281	9.8397	0.1549	9.9946	2.6338	0.1455	2.7793		13,014.87 19	13,014.87 19	0.8326		13,035.68 74
Total	5.6449	18.5420	46.0110	0.1300	9.8397	0.1788	10.0185	2.6338	0.1694	2.8032		13,390.87 94	13,390.87 94	0.8399	6.8900e-003	13,413.93 17

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

	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	Building Construction	Building Construction	7/10/2020	7/10/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

Trips and VMT

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

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
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2020

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

3.2 Building Construction - 2020

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

3.2 Building Construction - 2020

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

	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	4.1355	18.2285	45.7286	0.1281	9.8397	0.1549	9.9946	2.6338	0.1455	2.7793		13,014.87 19	13,014.87 19	0.8326		13,035.68 74
Unmitigated	4.1355	18.2285	45.7286	0.1281	9.8397	0.1549	9.9946	2.6338	0.1455	2.7793		13,014.87 19	13,014.87 19	0.8326		13,035.68 74

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Racquet Club	1,490.91	2,268.93	1848.78	3,371,233	3,371,233
Total	1,490.91	2,268.93	1,848.78	3,371,233	3,371,233

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9

4.4 Fleet Mix

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Parking Lot	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Racquet Club	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008
NaturalGas Unmitigated	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	3195.72	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008
Total		0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008

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
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	3.19572	0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008
Total		0.0345	0.3133	0.2632	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.9666	375.9666	7.2100e-003	6.8900e-003	378.2008

6.0 Area Detail

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

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	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004			0.0436
Unmitigated	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004			0.0436

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	0.1672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	1.3059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	1.8200e-003	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004			0.0436
Total	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004			0.0436

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

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	0.1672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8200e-003	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436
Total	1.4749	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0408	0.0408	1.1000e-004		0.0436

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Commerce Modelo - Existing Site - Los Angeles-South Coast County, Winter

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

Commerce Modelo - Los Angeles-South Coast County, Annual

Commerce Modelo
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	88.00	1000sqft	2.02	88,000.00	0
Enclosed Parking with Elevator	1,223.00	Space	11.01	489,200.00	0
Parking Lot	50.00	Space	0.45	20,000.00	0
City Park	4.75	Acre	4.75	206,910.00	0
Health Club	22.00	1000sqft	0.51	22,000.00	0
High Turnover (Sit Down Restaurant)	16.00	1000sqft	0.37	16,000.00	0
Movie Theater (No Matinee)	55.00	1000sqft	1.26	55,000.00	0
Racquet Club	111.05	1000sqft	2.55	111,050.00	0
Recreational Swimming Pool	40.36	1000sqft	0.93	40,364.16	0
Condo/Townhouse High Rise	850.00	Dwelling Unit	3.49	850,000.00	2431
Strip Mall	28.00	1000sqft	0.64	28,000.00	0
Supermarket	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	526.82	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

Commerce Modelo - Los Angeles-South Coast County, Annual

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with RPS target of 40% by 2024.

Land Use - Based on applicant provided information. Total acreage is larger than the actual site due to parking being underground.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition -

Grading - Based on applicant provided information.

Architectural Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on traffic report.

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Mobile Land Use Mitigation -

Area Mitigation - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

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Energy Mitigation - Solar for residential in accordance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Parking	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	260.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	45.00	100.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	722.50	0.00
tblFireplaces	NumberNoFireplace	85.00	0.00
tblFireplaces	NumberWood	42.50	0.00

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tblGrading	AcresOfGrading	0.00	250.00
tblGrading	MaterialImported	0.00	85,000.00
tblLandUse	LandUseSquareFeet	40,360.00	40,364.16
tblLandUse	LotAcreage	13.28	3.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	526.82
tblTripsAndVMT	HaulingTripNumber	0.00	49,440.00
tblTripsAndVMT	HaulingTripNumber	10,625.00	10,626.00
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	18.00
tblTripsAndVMT	WorkerTripNumber	53.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	4.33
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	26.90
tblVehicleTrips	ST_TR	158.37	45.06
tblVehicleTrips	ST_TR	99.28	49.16
tblVehicleTrips	ST_TR	21.35	12.02

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tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	14.80
tblVehicleTrips	ST_TR	177.59	27.19
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	5.44
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	21.00
tblVehicleTrips	SU_TR	131.84	54.13
tblVehicleTrips	SU_TR	81.90	59.60
tblVehicleTrips	SU_TR	17.40	14.75
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	30.45
tblVehicleTrips	SU_TR	166.44	29.01
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	4.46
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	17.06
tblVehicleTrips	WD_TR	127.15	56.13
tblVehicleTrips	WD_TR	78.06	62.53
tblVehicleTrips	WD_TR	14.03	18.30
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	44.32	14.04
tblVehicleTrips	WD_TR	102.24	47.23
tblWoodstoves	NumberCatalytic	42.50	0.00
tblWoodstoves	NumberNoncatalytic	42.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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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					
2020	0.8560	11.6015	6.0748	0.0230	0.4057	0.3359	0.7416	0.1082	0.3193	0.4275	0.0000	2,144.714 4	2,144.714 4	0.2807	0.0000	2,151.732 5
2021	1.0926	12.4987	8.1663	0.0242	1.6627	0.4409	2.1036	0.7185	0.4185	1.1370	0.0000	2,211.7371	2,211.7371	0.3472	0.0000	2,220.417 1
2022	0.8906	6.2662	7.8547	0.0268	1.9340	0.1457	2.0797	0.5371	0.1373	0.6744	0.0000	2,467.987 2	2,467.987 2	0.1778	0.0000	2,472.432 2
2023	1.0826	3.9280	6.1123	0.0212	1.3892	0.0928	1.4820	0.3730	0.0870	0.4600	0.0000	1,949.613 7	1,949.613 7	0.1298	0.0000	1,952.857 4
2024	0.2873	0.0122	0.0570	1.7000e-004	0.0163	5.5000e-004	0.0168	4.3200e-003	5.4000e-004	4.8600e-003	0.0000	15.0058	15.0058	4.2000e-004	0.0000	15.0164
Maximum	1.0926	12.4987	8.1663	0.0268	1.9340	0.4409	2.1036	0.7185	0.4185	1.1370	0.0000	2,467.987 2	2,467.987 2	0.3472	0.0000	2,472.432 2

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2.1 Overall Construction

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	tons/yr										MT/yr					
2020	0.8560	11.6015	6.0748	0.0230	0.4057	0.3359	0.7416	0.1082	0.3193	0.4275	0.0000	2,144.7134	2,144.7134	0.2807	0.0000	2,151.7315
2021	1.0926	12.4987	8.1663	0.0242	0.9324	0.4409	1.3733	0.3539	0.4185	0.7724	0.0000	2,211.7356	2,211.7356	0.3472	0.0000	2,220.4156
2022	0.8906	6.2662	7.8547	0.0268	1.7621	0.1457	1.9077	0.4795	0.1373	0.6167	0.0000	2,467.9867	2,467.9867	0.1778	0.0000	2,472.4317
2023	1.0826	3.9280	6.1123	0.0212	1.3892	0.0928	1.4820	0.3730	0.0870	0.4600	0.0000	1,949.6133	1,949.6133	0.1298	0.0000	1,952.8571
2024	0.2873	0.0122	0.0570	1.7000e-004	0.0163	5.5000e-004	0.0168	4.3200e-003	5.4000e-004	4.8600e-003	0.0000	15.0058	15.0058	4.2000e-004	0.0000	15.0164
Maximum	1.0926	12.4987	8.1663	0.0268	1.7621	0.4409	1.9077	0.4795	0.4185	0.7724	0.0000	2,467.9867	2,467.9867	0.3472	0.0000	2,472.4317

	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	16.68	0.00	14.05	24.25	0.00	15.62	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2020	7-31-2020	4.6182	4.6182
2	8-1-2020	10-31-2020	4.6266	4.6266
3	11-1-2020	1-31-2021	4.5280	4.5280
4	2-1-2021	4-30-2021	4.1349	4.1349
5	5-1-2021	7-31-2021	2.5514	2.5514
6	8-1-2021	10-31-2021	3.0282	3.0282

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7	11-1-2021	1-31-2022	3.3732	3.3732
8	2-1-2022	4-30-2022	1.6602	1.6602
9	5-1-2022	7-31-2022	1.6528	1.6528
10	8-1-2022	10-31-2022	1.6612	1.6612
11	11-1-2022	1-31-2023	1.5868	1.5868
12	2-1-2023	4-30-2023	1.3543	1.3543
13	5-1-2023	7-31-2023	1.3849	1.3849
14	8-1-2023	10-31-2023	1.1790	1.1790
15	11-1-2023	1-31-2024	0.8739	0.8739
		Highest	4.6266	4.6266

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	4.7104	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063
Energy	0.1085	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	3,943.434 1	3,943.434 1	0.1785	0.0524	3,963.504 1
Mobile	2.6538	12.3751	31.6888	0.1240	10.9340	0.0959	11.0299	2.9302	0.0891	3.0193	0.0000	11,488.10 93	11,488.109 3	0.5526	0.0000	11,501.923 2
Waste						0.0000	0.0000		0.0000	0.0000	440.4559	0.0000	440.4559	26.0302	0.0000	1,091.210 8
Water						0.0000	0.0000		0.0000	0.0000	36.2042	513.1887	549.3929	3.7468	0.0937	670.9690
Total	7.4728	13.4295	41.0553	0.1304	10.9340	0.2196	11.1535	2.9302	0.2127	3.1430	476.6601	15,959.09 23	16,435.75 24	30.5219	0.1460	17,242.31 34

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2.2 Overall Operational

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	4.7104	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063
Energy	0.1085	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	3,068.4382	3,068.4382	0.1304	0.0424	3,084.3344
Mobile	2.3300	10.6503	23.8690	0.0880	7.5007	0.0696	7.5703	2.0101	0.0646	2.0747	0.0000	8,162.0937	8,162.0937	0.4124	0.0000	8,172.4036
Waste						0.0000	0.0000		0.0000	0.0000	220.2279	0.0000	220.2279	13.0151	0.0000	545.6054
Water						0.0000	0.0000		0.0000	0.0000	28.9634	432.5283	461.4917	2.9986	0.0752	558.8573
Total	7.1490	11.7047	33.2356	0.0944	7.5007	0.1932	7.6939	2.0101	0.1882	2.1984	249.1913	11,677.4203	11,926.6117	16.5703	0.1176	12,375.9070

	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	4.33	12.84	19.05	27.60	31.40	12.00	31.02	31.40	11.51	30.05	47.72	26.83	27.43	45.71	19.48	28.22

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2020	4/29/2021	5	260	
2	Site Preparation	Site Preparation	4/30/2021	9/16/2021	5	100	
3	Grading	Grading	9/17/2021	2/3/2022	5	100	
4	Building Construction	Building Construction	2/4/2022	10/12/2023	5	440	
5	Paving	Paving	10/13/2023	11/30/2023	5	35	
6	Architectural Coating	Architectural Coating	12/1/2023	1/18/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 250

Acres of Paving: 11.46

Residential Indoor: 1,721,250; Residential Outdoor: 573,750; Non-Residential Indoor: 526,575; Non-Residential Outdoor: 175,525; Striped Parking Area: 30,552 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	3	8.00	85	0.78
Demolition	Dumpers/Tenders	4	8.00	16	0.38
Demolition	Excavators	5	8.00	158	0.38
Demolition	Generator Sets	3	8.00	84	0.74
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Crushing/Proc. Equipment	3	8.00	85	0.78
Site Preparation	Dumpers/Tenders	4	8.00	16	0.38
Site Preparation	Excavators	5	8.00	158	0.38

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Site Preparation	Generator Sets	3	8.00	84	0.74
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crushing/Proc. Equipment	3	8.00	85	0.78
Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	5	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Loaders	4	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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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	21	16.00	0.00	49,440.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	21	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	21	20.00	0.00	10,626.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,062.00	272.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	212.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7027	6.6552	4.9281	9.7700e-003		0.3204	0.3204		0.3045	0.3045	0.0000	847.9524	847.9524	0.1910	0.0000	852.7261
Total	0.7027	6.6552	4.9281	9.7700e-003	0.0000	0.3204	0.3204	0.0000	0.3045	0.3045	0.0000	847.9524	847.9524	0.1910	0.0000	852.7261

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3.2 Demolition - 2020

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	0.1468	4.9411	1.0891	0.0131	0.3904	0.0154	0.4057	0.1042	0.0147	0.1189	0.0000	1,282.4630	1,282.4630	0.0893	0.0000	1,284.6962
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4600e-003	5.2100e-003	0.0576	1.6000e-004	0.0153	1.3000e-004	0.0155	4.0700e-003	1.2000e-004	4.2000e-003	0.0000	14.2989	14.2989	4.5000e-004	0.0000	14.3102
Total	0.1533	4.9463	1.1467	0.0132	0.4057	0.0155	0.4212	0.1082	0.0148	0.1231	0.0000	1,296.7620	1,296.7620	0.0898	0.0000	1,299.0063

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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7027	6.6552	4.9281	9.7700e-003		0.3204	0.3204		0.3045	0.3045	0.0000	847.9514	847.9514	0.1910	0.0000	852.7251
Total	0.7027	6.6552	4.9281	9.7700e-003	0.0000	0.3204	0.3204	0.0000	0.3045	0.3045	0.0000	847.9514	847.9514	0.1910	0.0000	852.7251

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3.2 Demolition - 2020

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	tons/yr										MT/yr					
Hauling	0.1468	4.9411	1.0891	0.0131	0.3904	0.0154	0.4057	0.1042	0.0147	0.1189	0.0000	1,282.4630	1,282.4630	0.0893	0.0000	1,284.6962
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4600e-003	5.2100e-003	0.0576	1.6000e-004	0.0153	1.3000e-004	0.0155	4.0700e-003	1.2000e-004	4.2000e-003	0.0000	14.2989	14.2989	4.5000e-004	0.0000	14.3102
Total	0.1533	4.9463	1.1467	0.0132	0.4057	0.0155	0.4212	0.1082	0.0148	0.1231	0.0000	1,296.7620	1,296.7620	0.0898	0.0000	1,299.0063

3.2 Demolition - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3193	2.9753	2.3760	4.7500e-003		0.1403	0.1403		0.1331	0.1331	0.0000	411.8878	411.8878	0.0920	0.0000	414.1870
Total	0.3193	2.9753	2.3760	4.7500e-003	0.0000	0.1403	0.1403	0.0000	0.1331	0.1331	0.0000	411.8878	411.8878	0.0920	0.0000	414.1870

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3.2 Demolition - 2021

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	0.0681	2.2372	0.5216	6.2600e-003	0.3539	6.7000e-003	0.3606	0.0909	6.4100e-003	0.0973	0.0000	616.0526	616.0526	0.0428	0.0000	617.1216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9300e-003	2.2800e-003	0.0257	7.0000e-005	7.4500e-003	6.0000e-005	7.5100e-003	1.9800e-003	6.0000e-005	2.0400e-003	0.0000	6.7246	6.7246	2.0000e-004	0.0000	6.7296
Total	0.0710	2.2395	0.5473	6.3300e-003	0.3614	6.7600e-003	0.3681	0.0929	6.4700e-003	0.0994	0.0000	622.7773	622.7773	0.0430	0.0000	623.8512

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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3193	2.9753	2.3760	4.7500e-003		0.1403	0.1403		0.1331	0.1331	0.0000	411.8873	411.8873	0.0920	0.0000	414.1865
Total	0.3193	2.9753	2.3760	4.7500e-003	0.0000	0.1403	0.1403	0.0000	0.1331	0.1331	0.0000	411.8873	411.8873	0.0920	0.0000	414.1865

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3.2 Demolition - 2021

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	tons/yr										MT/yr					
Hauling	0.0681	2.2372	0.5216	6.2600e-003	0.3539	6.7000e-003	0.3606	0.0909	6.4100e-003	0.0973	0.0000	616.0526	616.0526	0.0428	0.0000	617.1216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9300e-003	2.2800e-003	0.0257	7.0000e-005	7.4500e-003	6.0000e-005	7.5100e-003	1.9800e-003	6.0000e-005	2.0400e-003	0.0000	6.7246	6.7246	2.0000e-004	0.0000	6.7296
Total	0.0710	2.2395	0.5473	6.3300e-003	0.3614	6.7600e-003	0.3681	0.0929	6.4700e-003	0.0994	0.0000	622.7773	622.7773	0.0430	0.0000	623.8512

3.3 Site Preparation - 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					
Fugitive Dust					0.6022	0.0000	0.6022	0.3310	0.0000	0.3310	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3757	3.5004	2.7953	5.5800e-003		0.1650	0.1650		0.1566	0.1566	0.0000	484.5738	484.5738	0.1082	0.0000	487.2788
Total	0.3757	3.5004	2.7953	5.5800e-003	0.6022	0.1650	0.7672	0.3310	0.1566	0.4876	0.0000	484.5738	484.5738	0.1082	0.0000	487.2788

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3.3 Site Preparation - 2021

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8700e-003	3.0100e-003	0.0340	1.0000e-004	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.9003	8.9003	2.6000e-004	0.0000	8.9068
Total	3.8700e-003	3.0100e-003	0.0340	1.0000e-004	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.9003	8.9003	2.6000e-004	0.0000	8.9068

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	tons/yr										MT/yr					
Fugitive Dust					0.2349	0.0000	0.2349	0.1291	0.0000	0.1291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3757	3.5004	2.7952	5.5800e-003		0.1650	0.1650		0.1566	0.1566	0.0000	484.5733	484.5733	0.1082	0.0000	487.2782
Total	0.3757	3.5004	2.7952	5.5800e-003	0.2349	0.1650	0.3999	0.1291	0.1566	0.2857	0.0000	484.5733	484.5733	0.1082	0.0000	487.2782

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3.3 Site Preparation - 2021

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8700e-003	3.0100e-003	0.0340	1.0000e-004	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.9003	8.9003	2.6000e-004	0.0000	8.9068
Total	3.8700e-003	3.0100e-003	0.0340	1.0000e-004	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.9003	8.9003	2.6000e-004	0.0000	8.9068

3.4 Grading - 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					
Fugitive Dust					0.5951	0.0000	0.5951	0.2666	0.0000	0.2666	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2855	2.6603	2.1244	4.2400e-003		0.1254	0.1254		0.1190	0.1190	0.0000	368.2761	368.2761	0.0822	0.0000	370.3319
Total	0.2855	2.6603	2.1244	4.2400e-003	0.5951	0.1254	0.7205	0.2666	0.1190	0.3856	0.0000	368.2761	368.2761	0.0822	0.0000	370.3319

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3.4 Grading - 2021

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	0.0340	1.1178	0.2606	3.1300e-003	0.0859	3.3500e-003	0.0892	0.0231	3.2000e-003	0.0263	0.0000	307.8061	307.8061	0.0214	0.0000	308.3402
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2700e-003	2.5500e-003	0.0287	8.0000e-005	8.3300e-003	7.0000e-005	8.4000e-003	2.2100e-003	6.0000e-005	2.2800e-003	0.0000	7.5158	7.5158	2.2000e-004	0.0000	7.5213
Total	0.0373	1.1203	0.2894	3.2100e-003	0.0942	3.4200e-003	0.0976	0.0253	3.2600e-003	0.0286	0.0000	315.3218	315.3218	0.0216	0.0000	315.8615

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	tons/yr										MT/yr					
Fugitive Dust					0.2321	0.0000	0.2321	0.1040	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2855	2.6603	2.1244	4.2400e-003		0.1254	0.1254		0.1190	0.1190	0.0000	368.2757	368.2757	0.0822	0.0000	370.3314
Total	0.2855	2.6603	2.1244	4.2400e-003	0.2321	0.1254	0.3575	0.1040	0.1190	0.2230	0.0000	368.2757	368.2757	0.0822	0.0000	370.3314

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3.4 Grading - 2021

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	tons/yr										MT/yr					
Hauling	0.0340	1.1178	0.2606	3.1300e-003	0.0859	3.3500e-003	0.0892	0.0231	3.2000e-003	0.0263	0.0000	307.8061	307.8061	0.0214	0.0000	308.3402
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2700e-003	2.5500e-003	0.0287	8.0000e-005	8.3300e-003	7.0000e-005	8.4000e-003	2.2100e-003	6.0000e-005	2.2800e-003	0.0000	7.5158	7.5158	2.2000e-004	0.0000	7.5213
Total	0.0373	1.1203	0.2894	3.2100e-003	0.0942	3.4200e-003	0.0976	0.0253	3.2600e-003	0.0286	0.0000	315.3218	315.3218	0.0216	0.0000	315.8615

3.4 Grading - 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					
Fugitive Dust					0.2819	0.0000	0.2819	0.0945	0.0000	0.0945	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0789	0.7067	0.6551	1.3400e-003		0.0327	0.0327		0.0310	0.0310	0.0000	116.3003	116.3003	0.0258	0.0000	116.9458
Total	0.0789	0.7067	0.6551	1.3400e-003	0.2819	0.0327	0.3146	0.0945	0.0310	0.1255	0.0000	116.3003	116.3003	0.0258	0.0000	116.9458

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3.4 Grading - 2022

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	0.0102	0.3276	0.0814	9.7000e-004	0.0741	9.2000e-004	0.0750	0.0188	8.8000e-004	0.0197	0.0000	96.0460	96.0460	6.6400e-003	0.0000	96.2121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.3000e-004	8.3600e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2900	2.2900	6.0000e-005	0.0000	2.2916
Total	0.0112	0.3284	0.0898	1.0000e-003	0.0767	9.4000e-004	0.0777	0.0195	9.0000e-004	0.0204	0.0000	98.3360	98.3360	6.7000e-003	0.0000	98.5036

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	tons/yr										MT/yr					
Fugitive Dust					0.1099	0.0000	0.1099	0.0369	0.0000	0.0369	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0789	0.7067	0.6551	1.3400e-003		0.0327	0.0327		0.0310	0.0310	0.0000	116.3001	116.3001	0.0258	0.0000	116.9457
Total	0.0789	0.7067	0.6551	1.3400e-003	0.1099	0.0327	0.1426	0.0369	0.0310	0.0679	0.0000	116.3001	116.3001	0.0258	0.0000	116.9457

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3.4 Grading - 2022

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	tons/yr										MT/yr					
Hauling	0.0102	0.3276	0.0814	9.7000e-004	0.0741	9.2000e-004	0.0750	0.0188	8.8000e-004	0.0197	0.0000	96.0460	96.0460	6.6400e-003	0.0000	96.2121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.3000e-004	8.3600e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2900	2.2900	6.0000e-005	0.0000	2.2916
Total	0.0112	0.3284	0.0898	1.0000e-003	0.0767	9.4000e-004	0.0777	0.0195	9.0000e-004	0.0204	0.0000	98.3360	98.3360	6.7000e-003	0.0000	98.5036

3.5 Building 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	0.2013	1.8427	1.9309	3.1800e-003		0.0955	0.0955		0.0898	0.0898	0.0000	273.4358	273.4358	0.0655	0.0000	275.0735
Total	0.2013	1.8427	1.9309	3.1800e-003		0.0955	0.0955		0.0898	0.0898	0.0000	273.4358	273.4358	0.0655	0.0000	275.0735

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3.5 Building Construction - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0936	3.0094	0.8126	8.0800e-003	0.2022	5.6500e-003	0.2078	0.0584	5.4000e-003	0.0638	0.0000	784.2065	784.2065	0.0468	0.0000	785.3775
Worker	0.5056	0.3792	4.3664	0.0132	1.3732	0.0110	1.3842	0.3647	0.0101	0.3748	0.0000	1,195.7086	1,195.7086	0.0329	0.0000	1,196.5319
Total	0.5992	3.3885	5.1789	0.0213	1.5754	0.0166	1.5920	0.4231	0.0155	0.4386	0.0000	1,979.9151	1,979.9151	0.0798	0.0000	1,981.9093

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	tons/yr										MT/yr					
Off-Road	0.2013	1.8426	1.9309	3.1800e-003		0.0955	0.0955		0.0898	0.0898	0.0000	273.4355	273.4355	0.0655	0.0000	275.0732
Total	0.2013	1.8426	1.9309	3.1800e-003		0.0955	0.0955		0.0898	0.0898	0.0000	273.4355	273.4355	0.0655	0.0000	275.0732

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3.5 Building Construction - 2022

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0936	3.0094	0.8126	8.0800e-003	0.2022	5.6500e-003	0.2078	0.0584	5.4000e-003	0.0638	0.0000	784.2065	784.2065	0.0468	0.0000	785.3775
Worker	0.5056	0.3792	4.3664	0.0132	1.3732	0.0110	1.3842	0.3647	0.0101	0.3748	0.0000	1,195.7086	1,195.7086	0.0329	0.0000	1,196.5319
Total	0.5992	3.3885	5.1789	0.0213	1.5754	0.0166	1.5920	0.4231	0.0155	0.4386	0.0000	1,979.9151	1,979.9151	0.0798	0.0000	1,981.9093

3.5 Building Construction - 2023

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	0.1604	1.4673	1.6569	2.7500e-003		0.0714	0.0714		0.0672	0.0672	0.0000	236.4408	236.4408	0.0563	0.0000	237.8470
Total	0.1604	1.4673	1.6569	2.7500e-003		0.0714	0.0714		0.0672	0.0672	0.0000	236.4408	236.4408	0.0563	0.0000	237.8470

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3.5 Building Construction - 2023

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0600	1.9654	0.6302	6.7600e-003	0.1748	2.2900e-003	0.1771	0.0504	2.1900e-003	0.0526	0.0000	656.6518	656.6518	0.0358	0.0000	657.5463
Worker	0.4110	0.2965	3.4707	0.0110	1.1870	9.2100e-003	1.1962	0.3153	8.4800e-003	0.3238	0.0000	995.7570	995.7570	0.0256	0.0000	996.3979
Total	0.4710	2.2618	4.1009	0.0178	1.3618	0.0115	1.3733	0.3657	0.0107	0.3764	0.0000	1,652.4087	1,652.4087	0.0614	0.0000	1,653.9441

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	tons/yr										MT/yr					
Off-Road	0.1604	1.4673	1.6569	2.7500e-003		0.0714	0.0714		0.0672	0.0672	0.0000	236.4406	236.4406	0.0563	0.0000	237.8467
Total	0.1604	1.4673	1.6569	2.7500e-003		0.0714	0.0714		0.0672	0.0672	0.0000	236.4406	236.4406	0.0563	0.0000	237.8467

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3.5 Building Construction - 2023

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0600	1.9654	0.6302	6.7600e-003	0.1748	2.2900e-003	0.1771	0.0504	2.1900e-003	0.0526	0.0000	656.6518	656.6518	0.0358	0.0000	657.5463
Worker	0.4110	0.2965	3.4707	0.0110	1.1870	9.2100e-003	1.1962	0.3153	8.4800e-003	0.3238	0.0000	995.7570	995.7570	0.0256	0.0000	996.3979
Total	0.4710	2.2618	4.1009	0.0178	1.3618	0.0115	1.3733	0.3657	0.0107	0.3764	0.0000	1,652.4087	1,652.4087	0.0614	0.0000	1,653.9441

3.6 Paving - 2023

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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	5.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0187	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304

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3.6 Paving - 2023

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.7000e-004	8.9700e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.5739	2.5739	7.0000e-005	0.0000	2.5755
Total	1.0600e-003	7.7000e-004	8.9700e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.5739	2.5739	7.0000e-005	0.0000	2.5755

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	tons/yr										MT/yr					
Off-Road	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	5.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0187	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304

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3.6 Paving - 2023

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.7000e-004	8.9700e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.5739	2.5739	7.0000e-005	0.0000	2.5755
Total	1.0600e-003	7.7000e-004	8.9700e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.5739	2.5739	7.0000e-005	0.0000	2.5755

3.7 Architectural Coating - 2023

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					
Archit. Coating	0.4210					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0100e-003	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849
Total	0.4230	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849

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3.7 Architectural Coating - 2023

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4500e-003	6.0900e-003	0.0713	2.3000e-004	0.0244	1.9000e-004	0.0246	6.4800e-003	1.7000e-004	6.6500e-003	0.0000	20.4623	20.4623	5.3000e-004	0.0000	20.4754
Total	8.4500e-003	6.0900e-003	0.0713	2.3000e-004	0.0244	1.9000e-004	0.0246	6.4800e-003	1.7000e-004	6.6500e-003	0.0000	20.4623	20.4623	5.3000e-004	0.0000	20.4754

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	tons/yr										MT/yr					
Archit. Coating	0.4210					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0100e-003	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849
Total	0.4230	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849

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3.7 Architectural Coating - 2023

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4500e-003	6.0900e-003	0.0713	2.3000e-004	0.0244	1.9000e-004	0.0246	6.4800e-003	1.7000e-004	6.6500e-003	0.0000	20.4623	20.4623	5.3000e-004	0.0000	20.4754
Total	8.4500e-003	6.0900e-003	0.0713	2.3000e-004	0.0244	1.9000e-004	0.0246	6.4800e-003	1.7000e-004	6.6500e-003	0.0000	20.4623	20.4623	5.3000e-004	0.0000	20.4754

3.7 Architectural Coating - 2024

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					
Archit. Coating	0.2807					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2700e-003	8.5300e-003	0.0127	2.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898
Total	0.2819	8.5300e-003	0.0127	2.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898

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3.7 Architectural Coating - 2024

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3300e-003	3.7000e-003	0.0443	1.5000e-004	0.0163	1.2000e-004	0.0164	4.3200e-003	1.1000e-004	4.4300e-003	0.0000	13.2186	13.2186	3.2000e-004	0.0000	13.2266
Total	5.3300e-003	3.7000e-003	0.0443	1.5000e-004	0.0163	1.2000e-004	0.0164	4.3200e-003	1.1000e-004	4.4300e-003	0.0000	13.2186	13.2186	3.2000e-004	0.0000	13.2266

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	tons/yr										MT/yr					
Archit. Coating	0.2807					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2700e-003	8.5300e-003	0.0127	2.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898
Total	0.2819	8.5300e-003	0.0127	2.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898

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3.7 Architectural Coating - 2024

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3300e-003	3.7000e-003	0.0443	1.5000e-004	0.0163	1.2000e-004	0.0164	4.3200e-003	1.1000e-004	4.4300e-003	0.0000	13.2186	13.2186	3.2000e-004	0.0000	13.2266
Total	5.3300e-003	3.7000e-003	0.0443	1.5000e-004	0.0163	1.2000e-004	0.0164	4.3200e-003	1.1000e-004	4.4300e-003	0.0000	13.2186	13.2186	3.2000e-004	0.0000	13.2266

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

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	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	2.3300	10.6503	23.8690	0.0880	7.5007	0.0696	7.5703	2.0101	0.0646	2.0747	0.0000	8,162.0937	8,162.0937	0.4124	0.0000	8,172.4036
Unmitigated	2.6538	12.3751	31.6888	0.1240	10.9340	0.0959	11.0299	2.9302	0.0891	3.0193	0.0000	11,488.1093	11,488.1093	0.5526	0.0000	11,501.9232

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	3,791.00	3,680.50	4624.00	13,307,122	9,128,686
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Health Club	375.32	591.80	462.00	895,351	614,210
High Turnover (Sit Down Restaurant)	898.08	720.96	866.08	1,183,217	811,687
Movie Theater (No Matinee)	3,439.15	2,703.80	3278.00	7,016,233	4,813,136
Parking Lot	0.00	0.00	0.00		
Racquet Club	2,032.22	1,334.82	1637.99	3,826,168	2,624,751
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	393.12	414.40	852.60	878,618	602,732
Supermarket	1,464.13	842.89	899.31	1,708,310	1,171,900
Total	12,393.02	10,289.17	12,619.98	28,815,019	19,767,103

4.3 Trip Type Information

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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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse 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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Condo/Townhouse High Rise	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Enclosed Parking with Elevator	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
General Office Building	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Health Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
High Turnover (Sit Down Restaurant)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Movie Theater (No Matinee)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Parking Lot	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Racquet Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Recreational Swimming Pool	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Strip Mall	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Supermarket	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	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	0.0000	1,994.2899	1,994.2899	0.1098	0.0227	2,003.8029
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,869.2858	2,869.2858	0.1580	0.0327	2,882.9727
NaturalGas Mitigated	0.1085	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	1,074.1483	1,074.1483	0.0206	0.0197	1,080.5315
NaturalGas Unmitigated	0.1085	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	1,074.1483	1,074.1483	0.0206	0.0197	1,080.5315

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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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.13867e+007	0.0614	0.5247	0.2233	3.3500e-003		0.0424	0.0424		0.0424	0.0424	0.0000	607.6401	607.6401	0.0117	0.0111	611.2510
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	916080	4.9400e-003	0.0449	0.0377	2.7000e-004		3.4100e-003	3.4100e-003		3.4100e-003	3.4100e-003	0.0000	48.8855	48.8855	9.4000e-004	9.0000e-004	49.1760
Health Club	398200	2.1500e-003	0.0195	0.0164	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.2495	21.2495	4.1000e-004	3.9000e-004	21.3757
High Turnover (Sit Down Restaurant)	3.69216e+006	0.0199	0.1810	0.1520	1.0900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	197.0277	197.0277	3.7800e-003	3.6100e-003	198.1986
Movie Theater (No Matinee)	995500	5.3700e-003	0.0488	0.0410	2.9000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	53.1237	53.1237	1.0200e-003	9.7000e-004	53.4394
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	2.01001e+006	0.0108	0.0985	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.2615	107.2615	2.0600e-003	1.9700e-003	107.8989
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	45920	2.5000e-004	2.2500e-003	1.8900e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4505	2.4505	5.0000e-005	4.0000e-005	2.4650
Supermarket	684170	3.6900e-003	0.0335	0.0282	2.0000e-004		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	36.5099	36.5099	7.0000e-004	6.7000e-004	36.7269
Total		0.1086	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	1,074.1483	1,074.1483	0.0206	0.0197	1,080.5315

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5.2 Energy by Land Use - NaturalGas

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
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.13867e+007	0.0614	0.5247	0.2233	3.3500e-003		0.0424	0.0424		0.0424	0.0424	0.0000	607.6401	607.6401	0.0117	0.0111	611.2510
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	916080	4.9400e-003	0.0449	0.0377	2.7000e-004		3.4100e-003	3.4100e-003		3.4100e-003	3.4100e-003	0.0000	48.8855	48.8855	9.4000e-004	9.0000e-004	49.1760
Health Club	398200	2.1500e-003	0.0195	0.0164	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.2495	21.2495	4.1000e-004	3.9000e-004	21.3757
High Turnover (Sit Down Restaurant)	3.69216e+006	0.0199	0.1810	0.1520	1.0900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	197.0277	197.0277	3.7800e-003	3.6100e-003	198.1986
Movie Theater (No Matinee)	995500	5.3700e-003	0.0488	0.0410	2.9000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	53.1237	53.1237	1.0200e-003	9.7000e-004	53.4394
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	2.01001e+006	0.0108	0.0985	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.2615	107.2615	2.0600e-003	1.9700e-003	107.8989
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	45920	2.5000e-004	2.2500e-003	1.8900e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4505	2.4505	5.0000e-005	4.0000e-005	2.4650
Supermarket	684170	3.6900e-003	0.0335	0.0282	2.0000e-004		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	36.5099	36.5099	7.0000e-004	6.7000e-004	36.7269
Total		0.1086	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	1,074.1483	1,074.1483	0.0206	0.0197	1,080.5315

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5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	3.66166e+006	874.9948	0.0482	9.9700e-003	879.1687
Enclosed Parking with Elevator	2.86671e+006	685.0339	0.0377	7.8000e-003	688.3016
General Office Building	1.14312e+006	273.1617	0.0150	3.1100e-003	274.4647
Health Club	244200	58.3544	3.2100e-003	6.6000e-004	58.6328
High Turnover (Sit Down Restaurant)	706240	168.7642	9.2900e-003	1.9200e-003	169.5692
Movie Theater (No Matinee)	610500	145.8860	8.0300e-003	1.6600e-003	146.5819
Parking Lot	7000	1.6727	9.0000e-005	2.0000e-005	1.6807
Racquet Club	1.23266e+006	294.5571	0.0162	3.3500e-003	295.9622
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	378000	90.3275	4.9700e-003	1.0300e-003	90.7583
Supermarket	1.15723e+006	276.5335	0.0152	3.1500e-003	277.8526
Total		2,869.2858	0.1579	0.0327	2,882.9726

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	-305138	-72.9163	-0.0040	-0.0008	-73.2641
Condo/Townhouse High Rise	3.35652e+006	802.0785	0.0442	9.1300e-003	805.9045
Enclosed Parking with Elevator	2.56157e+006	612.1176	0.0337	6.9700e-003	615.0375
General Office Building	837982	200.2454	0.0110	2.2800e-003	201.2006
Health Club	-60938.3	-14.5619	-0.0008	-0.0002	-14.6314
High Turnover (Sit Down Restaurant)	401102	95.8479	5.2800e-003	1.0900e-003	96.3051
Movie Theater (No Matinee)	305362	72.9697	4.0200e-003	8.3000e-004	73.3178
Parking Lot	-298138	-71.2436	-0.0039	-0.0008	-71.5834
Racquet Club	927517	221.6408	0.0122	2.5200e-003	222.6981
Recreational Swimming Pool	-305138	-72.9163	-0.0040	-0.0008	-73.2641
Strip Mall	72861.7	17.4111	9.6000e-004	2.0000e-004	17.4942
Supermarket	852092	203.6171	0.0112	2.3200e-003	204.5884
Total		1,994.2899	0.1098	0.0227	2,003.8030

6.0 Area Detail

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6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	4.7104	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063
Unmitigated	4.7104	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063

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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	0.0702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3749					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2654	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063
Total	4.7105	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063

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6.2 Area by SubCategory

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	0.0702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3749					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2654	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063
Total	4.7105	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063

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
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	461.4917	2.9986	0.0752	558.8573
Unmitigated	549.3929	3.7468	0.0937	670.9690

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.65954	15.0253	8.3000e-004	1.7000e-004	15.0970
Condo/Townhouse High Rise	55.3809 / 34.9141	282.5806	1.8192	0.0456	341.6573
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	15.6406 / 9.58616	79.0779	0.5137	0.0129	95.7587
Health Club	1.30115 / 0.797479	6.5785	0.0427	1.0700e-003	7.9662
High Turnover (Sit Down Restaurant)	4.85654 / 0.309992	17.4750	0.1591	3.9200e-003	22.6207
Movie Theater (No Matinee)	22.0881 / 1.40988	79.4780	0.7237	0.0178	102.8816
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	6.56785 / 4.02545	33.2067	0.2157	5.4100e-003	40.2114
Recreational Swimming Pool	2.38702 / 1.46301	12.0686	0.0784	1.9700e-003	14.6144
Strip Mall	2.07403 / 1.27118	10.4862	0.0681	1.7100e-003	12.6982
Supermarket	3.82131 / 0.118185	13.4162	0.1252	3.0800e-003	17.4635
Total		549.3929	3.7468	0.0937	670.9690

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.3143	14.1088	7.8000e-004	1.6000e-004	14.1761
Condo/Townhouse High Rise	44.3047 / 32.7843	238.9487	1.4561	0.0367	286.2715
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	12.5125 / 9.0014	66.7998	0.4112	0.0103	80.1614
Health Club	1.04092 / 0.748832	5.5571	0.0342	8.6000e-004	6.6687
High Turnover (Sit Down Restaurant)	3.88523 / 0.291082	14.0944	0.1273	3.1400e-003	18.2115
Movie Theater (No Matinee)	17.6705 / 1.32387	64.1027	0.5790	0.0143	82.8281
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	5.25428 / 3.7799	28.0508	0.1727	4.3400e-003	33.6617
Recreational Swimming Pool	1.90961 / 1.37377	10.1948	0.0628	1.5800e-003	12.2340
Strip Mall	1.65922 / 1.19364	8.8581	0.0545	1.3700e-003	10.6299
Supermarket	3.05705 / 0.110976	10.7766	0.1002	2.4600e-003	14.0146
Total		461.4917	2.9986	0.0752	558.8573

8.0 Waste Detail

Commerce Modelo - Los Angeles-South Coast County, Annual

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	220.2279	13.0151	0.0000	545.6054
Unmitigated	440.4559	26.0302	0.0000	1,091.2108

Commerce Modelo - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.41	0.0832	4.9200e-003	0.0000	0.2062
Condo/Townhouse High Rise	391	79.3695	4.6906	0.0000	196.6345
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	81.84	16.6128	0.9818	0.0000	41.1575
Health Club	125.4	25.4551	1.5044	0.0000	63.0639
High Turnover (Sit Down Restaurant)	190.4	38.6495	2.2841	0.0000	95.7525
Movie Theater (No Matinee)	313.5	63.6377	3.7609	0.0000	157.6596
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	632.99	128.4913	7.5936	0.0000	318.3316
Recreational Swimming Pool	230.05	46.6981	2.7598	0.0000	115.6925
Strip Mall	29.4	5.9679	0.3527	0.0000	14.7853
Supermarket	174.84	35.4909	2.0975	0.0000	87.9273
Total		440.4559	26.0302	0.0000	1,091.2108

Commerce Modelo - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.205	0.0416	2.4600e-003	0.0000	0.1031
Condo/Townhouse High Rise	195.5	39.6847	2.3453	0.0000	98.3173
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	40.92	8.3064	0.4909	0.0000	20.5787
Health Club	62.7	12.7275	0.7522	0.0000	31.5319
High Turnover (Sit Down Restaurant)	95.2	19.3247	1.1421	0.0000	47.8762
Movie Theater (No Matinee)	156.75	31.8188	1.8804	0.0000	78.8298
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	316.495	64.2456	3.7968	0.0000	159.1658
Recreational Swimming Pool	115.025	23.3490	1.3799	0.0000	57.8463
Strip Mall	14.7	2.9840	0.1764	0.0000	7.3927
Supermarket	87.42	17.7455	1.0487	0.0000	43.9637
Total		220.2279	13.0151	0.0000	545.6054

9.0 Operational Offroad

Commerce Modelo - Los Angeles-South Coast County, Annual

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

Commerce Modelo - Los Angeles-South Coast County, Summer

Commerce Modelo
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	88.00	1000sqft	2.02	88,000.00	0
Enclosed Parking with Elevator	1,223.00	Space	11.01	489,200.00	0
Parking Lot	50.00	Space	0.45	20,000.00	0
City Park	4.75	Acre	4.75	206,910.00	0
Health Club	22.00	1000sqft	0.51	22,000.00	0
High Turnover (Sit Down Restaurant)	16.00	1000sqft	0.37	16,000.00	0
Movie Theater (No Matinee)	55.00	1000sqft	1.26	55,000.00	0
Racquet Club	111.05	1000sqft	2.55	111,050.00	0
Recreational Swimming Pool	40.36	1000sqft	0.93	40,364.16	0
Condo/Townhouse High Rise	850.00	Dwelling Unit	3.49	850,000.00	2431
Strip Mall	28.00	1000sqft	0.64	28,000.00	0
Supermarket	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	526.82	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

Commerce Modelo - Los Angeles-South Coast County, Summer

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with RPS target of 40% by 2024.

Land Use - Based on applicant provided information. Total acreage is larger than the actual site due to parking being underground.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition -

Grading - Based on applicant provided information.

Architectural Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on traffic report.

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Mobile Land Use Mitigation -

Area Mitigation - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Commerce Modelo - Los Angeles-South Coast County, Summer

Energy Mitigation - Solar for residential in accordance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Parking	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	260.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	45.00	100.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	722.50	0.00
tblFireplaces	NumberNoFireplace	85.00	0.00
tblFireplaces	NumberWood	42.50	0.00

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tblGrading	AcresOfGrading	0.00	250.00
tblGrading	MaterialImported	0.00	85,000.00
tblLandUse	LandUseSquareFeet	40,360.00	40,364.16
tblLandUse	LotAcreage	13.28	3.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	526.82
tblTripsAndVMT	HaulingTripNumber	0.00	49,440.00
tblTripsAndVMT	HaulingTripNumber	10,625.00	10,626.00
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	18.00
tblTripsAndVMT	WorkerTripNumber	53.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	4.33
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	26.90
tblVehicleTrips	ST_TR	158.37	45.06
tblVehicleTrips	ST_TR	99.28	49.16
tblVehicleTrips	ST_TR	21.35	12.02

Commerce Modelo - Los Angeles-South Coast County, Summer

tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	14.80
tblVehicleTrips	ST_TR	177.59	27.19
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	5.44
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	21.00
tblVehicleTrips	SU_TR	131.84	54.13
tblVehicleTrips	SU_TR	81.90	59.60
tblVehicleTrips	SU_TR	17.40	14.75
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	30.45
tblVehicleTrips	SU_TR	166.44	29.01
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	4.46
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	17.06
tblVehicleTrips	WD_TR	127.15	56.13
tblVehicleTrips	WD_TR	78.06	62.53
tblVehicleTrips	WD_TR	14.03	18.30
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	44.32	14.04
tblVehicleTrips	WD_TR	102.24	47.23
tblWoodstoves	NumberCatalytic	42.50	0.00
tblWoodstoves	NumberNoncatalytic	42.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Commerce Modelo - Los Angeles-South Coast County, Summer

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					
2020	9.7651	130.7884	69.1371	0.2638	4.7247	3.8380	8.5627	1.2585	3.6479	4.9064	0.0000	27,144.52 14	27,144.52 14	3.5192	0.0000	27,232.50 07
2021	9.1673	121.0617	68.5092	0.2619	17.3167	3.4580	20.7061	7.5988	3.2829	10.8160	0.0000	26,960.72 90	26,960.72 90	3.4830	0.0000	27,047.80 45
2022	7.4973	85.4219	62.3597	0.2133	21.3220	2.7984	24.1203	8.5819	2.6613	11.2432	0.0000	21,634.27 46	21,634.27 46	2.9791	0.0000	21,668.25 76
2023	41.0858	35.9975	58.4863	0.2067	13.6121	0.8120	14.4241	3.6496	0.7626	4.4121	0.0000	20,974.57 07	20,974.57 07	1.2751	0.0000	21,006.44 88
2024	41.0317	1.6843	8.5734	0.0248	2.3697	0.0787	2.4483	0.6285	0.0773	0.7057	0.0000	2,455.886 0	2,455.886 0	0.0690	0.0000	2,457.6116
Maximum	41.0858	130.7884	69.1371	0.2638	21.3220	3.8380	24.1203	8.5819	3.6479	11.2432	0.0000	27,144.52 14	27,144.52 14	3.5192	0.0000	27,232.50 07

Commerce Modelo - Los Angeles-South Coast County, Summer

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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	16.5863	70.4224	190.1812	0.7465	64.6928	0.5575	65.2503	17.3091	0.5177	17.8268		76,205.8472	76,205.8472	3.5561		76,294.7504
Total	43.6607	76.4546	263.6437	0.7826	64.6928	1.3575	66.0503	17.3091	1.3178	18.6269	0.0000	82,820.4045	82,820.4045	3.8026	0.1190	82,950.9148

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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	14.6799	61.1940	141.4638	0.5303	44.3793	0.4044	44.7837	11.8740	0.3755	12.2495		54,192.7767	54,192.7767	2.6432		54,258.8572
Total	41.7543	67.2263	214.9263	0.5665	44.3793	1.2044	45.5837	11.8740	1.1755	13.0495	0.0000	60,807.3340	60,807.3340	2.8897	0.1190	60,915.0216

Commerce Modelo - Los Angeles-South Coast County, Summer

	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	4.37	12.07	18.48	27.62	31.40	11.28	30.99	31.40	10.80	29.94	0.00	26.58	26.58	24.01	0.00	26.56

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	5/1/2020	4/29/2021	5	260	
2	Site Preparation	Site Preparation	4/30/2021	9/16/2021	5	100	
3	Grading	Grading	9/17/2021	2/3/2022	5	100	
4	Building Construction	Building Construction	2/4/2022	10/12/2023	5	440	
5	Paving	Paving	10/13/2023	11/30/2023	5	35	
6	Architectural Coating	Architectural Coating	12/1/2023	1/18/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 250

Acres of Paving: 11.46

Residential Indoor: 1,721,250; Residential Outdoor: 573,750; Non-Residential Indoor: 526,575; Non-Residential Outdoor: 175,525; Striped Parking Area: 30,552 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	3	8.00	85	0.78
Demolition	Dumpers/Tenders	4	8.00	16	0.38
Demolition	Excavators	5	8.00	158	0.38

Commerce Modelo - Los Angeles-South Coast County, Summer

Demolition	Generator Sets	3	8.00	84	0.74
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Crushing/Proc. Equipment	3	8.00	85	0.78
Site Preparation	Dumpers/Tenders	4	8.00	16	0.38
Site Preparation	Excavators	5	8.00	158	0.38
Site Preparation	Generator Sets	3	8.00	84	0.74
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crushing/Proc. Equipment	3	8.00	85	0.78
Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	5	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Loaders	4	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Commerce Modelo - Los Angeles-South Coast County, Summer

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	21	16.00	0.00	49,440.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	21	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	21	20.00	0.00	10,626.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,062.00	272.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	212.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Commerce Modelo - Los Angeles-South Coast County, Summer

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	8.0305	76.0591	56.3206	0.1117		3.6620	3.6620		3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	8.0305	76.0591	56.3206	0.1117	0.0000	3.6620	3.6620	0.0000	3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	1.6610	54.6770	12.1159	0.1502	4.5459	0.1745	4.7204	1.2111	0.1670	1.3780		16,273.97 12	16,273.97 12	1.1077		16,301.66 39
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0736	0.0524	0.7006	1.8900e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		188.1781	188.1781	5.9300e-003		188.3264
Total	1.7346	54.7294	12.8165	0.1521	4.7247	0.1760	4.9007	1.2585	0.1683	1.4269		16,462.14 92	16,462.14 92	1.1136		16,489.99 03

Commerce Modelo - Los Angeles-South Coast County, Summer

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	8.0305	76.0591	56.3206	0.1117		3.6620	3.6620		3.4796	3.4796	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	8.0305	76.0591	56.3206	0.1117	0.0000	3.6620	3.6620	0.0000	3.4796	3.4796	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	1.6610	54.6770	12.1159	0.1502	4.5459	0.1745	4.7204	1.2111	0.1670	1.3780		16,273.97 12	16,273.97 12	1.1077		16,301.66 39
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0736	0.0524	0.7006	1.8900e- 003	0.1788	1.4900e- 003	0.1803	0.0474	1.3800e- 003	0.0488		188.1781	188.1781	5.9300e- 003		188.3264
Total	1.7346	54.7294	12.8165	0.1521	4.7247	0.1760	4.9007	1.2585	0.1683	1.4269		16,462.14 92	16,462.14 92	1.1136		16,489.99 03

Commerce Modelo - Los Angeles-South Coast County, Summer

3.2 Demolition - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	0.0000	3.3000	3.3000	0.0000	3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	1.5855	51.0075	11.9598	0.1484	8.5009	0.1566	8.6575	2.1819	0.1498	2.3317		16,095.50 14	16,095.50 14	1.0923		16,122.80 88
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	1.6541	51.0547	12.6043	0.1502	8.6797	0.1580	8.8377	2.2293	0.1511	2.3804		16,277.70 46	16,277.70 46	1.0977		16,305.14 62

Commerce Modelo - Los Angeles-South Coast County, Summer

3.2 Demolition - 2021

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	0.0000	3.3000	3.3000	0.0000	3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	1.5855	51.0075	11.9598	0.1484	8.5009	0.1566	8.6575	2.1819	0.1498	2.3317		16,095.50 14	16,095.50 14	1.0923		16,122.80 88
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	1.6541	51.0547	12.6043	0.1502	8.6797	0.1580	8.8377	2.2293	0.1511	2.3804		16,277.70 46	16,277.70 46	1.0977		16,305.14 62

Commerce Modelo - Los Angeles-South Coast County, Summer

3.3 Site Preparation - 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					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	12.0442	3.3000	15.3442	6.6205	3.1318	9.7523		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296

Commerce Modelo - Los Angeles-South Coast County, Summer

3.3 Site Preparation - 2021

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					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	4.6972	3.3000	7.9973	2.5820	3.1318	5.7138	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296

Commerce Modelo - Los Angeles-South Coast County, Summer

3.4 Grading - 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					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	14.7916	3.3000	18.0916	6.9213	3.1318	10.0531		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.8860	28.5036	6.6833	0.0829	2.3016	0.0875	2.3891	0.6182	0.0837	0.7019		8,994.338 1	8,994.338 1	0.6104		9,009.597 8
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	0.9717	28.5625	7.4888	0.0852	2.5252	0.0893	2.6145	0.6775	0.0854	0.7629		9,222.092 0	9,222.092 0	0.6171		9,237.519 5

Commerce Modelo - Los Angeles-South Coast County, Summer

3.4 Grading - 2021

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	5.7687	3.3000	9.0687	2.6993	3.1318	5.8311	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.8860	28.5036	6.6833	0.0829	2.3016	0.0875	2.3891	0.6182	0.0837	0.7019		8,994.338 1	8,994.338 1	0.6104		9,009.597 8
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	0.9717	28.5625	7.4888	0.0852	2.5252	0.0893	2.6145	0.6775	0.0854	0.7629		9,222.092 0	9,222.092 0	0.6171		9,237.519 5

Commerce Modelo - Los Angeles-South Coast County, Summer

3.4 Grading - 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					
Fugitive Dust					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	6.5739	58.8901	54.5893	0.1117		2.7206	2.7206		2.5870	2.5870		10,683.2596	10,683.2596	2.3718		10,742.5555
Total	6.5739	58.8901	54.5893	0.1117	14.7916	2.7206	17.5122	6.9213	2.5870	9.5083		10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.8432	26.4786	6.6153	0.0818	6.3069	0.0760	6.3829	1.6013	0.0727	1.6740		8,887.9579	8,887.9579	0.6012		8,902.9888
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	0.9235	26.5318	7.3585	0.0840	6.5304	0.0778	6.6082	1.6606	0.0743	1.7349		9,107.7004	9,107.7004	0.6073		9,122.8829

Commerce Modelo - Los Angeles-South Coast County, Summer

3.4 Grading - 2022

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	6.5739	58.8901	54.5893	0.1117		2.7206	2.7206		2.5870	2.5870	0.0000	10,683.2596	10,683.2596	2.3718		10,742.5555
Total	6.5739	58.8901	54.5893	0.1117	5.7687	2.7206	8.4893	2.6993	2.5870	5.2863	0.0000	10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.8432	26.4786	6.6153	0.0818	6.3069	0.0760	6.3829	1.6013	0.0727	1.6740		8,887.9579	8,887.9579	0.6012		8,902.9888
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	0.9235	26.5318	7.3585	0.0840	6.5304	0.0778	6.6082	1.6606	0.0743	1.7349		9,107.7004	9,107.7004	0.6073		9,122.8829

Commerce Modelo - Los Angeles-South Coast County, Summer

3.5 Building 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.7760	25.1138	6.5321	0.0693	1.7414	0.0472	1.7886	0.5014	0.0452	0.5465		7,411.6162	7,411.6162	0.4253		7,422.2493
Worker	4.2642	2.8264	39.4642	0.1171	11.8707	0.0929	11.9636	3.1482	0.0856	3.2337		11,668.3248	11,668.3248	0.3221		11,676.3761
Total	5.0401	27.9403	45.9963	0.1864	13.6121	0.1401	13.7522	3.6495	0.1307	3.7803		19,079.9410	19,079.9410	0.7474		19,098.6253

Commerce Modelo - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.7760	25.1138	6.5321	0.0693	1.7414	0.0472	1.7886	0.5014	0.0452	0.5465		7,411.6162	7,411.6162	0.4253		7,422.2493
Worker	4.2642	2.8264	39.4642	0.1171	11.8707	0.0929	11.9636	3.1482	0.0856	3.2337		11,668.3248	11,668.3248	0.3221		11,676.3761
Total	5.0401	27.9403	45.9963	0.1864	13.6121	0.1401	13.7522	3.6495	0.1307	3.7803		19,079.9410	19,079.9410	0.7474		19,098.6253

Commerce Modelo - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.5757	19.0554	5.8992	0.0670	1.7415	0.0220	1.7635	0.5014	0.0210	0.5224		7,178.2820	7,178.2820	0.3769		7,187.7047
Worker	4.0044	2.5572	36.3431	0.1128	11.8707	0.0903	11.9609	3.1482	0.0831	3.2313		11,241.0788	11,241.0788	0.2904		11,248.3380
Total	4.5801	21.6126	42.2423	0.1798	13.6121	0.1123	13.7244	3.6496	0.1042	3.7537		18,419.3608	18,419.3608	0.6673		18,436.0427

Commerce Modelo - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.5757	19.0554	5.8992	0.0670	1.7415	0.0220	1.7635	0.5014	0.0210	0.5224		7,178.2820	7,178.2820	0.3769		7,187.7047
Worker	4.0044	2.5572	36.3431	0.1128	11.8707	0.0903	11.9609	3.1482	0.0831	3.2313		11,241.0788	11,241.0788	0.2904		11,248.3380
Total	4.5801	21.6126	42.2423	0.1798	13.6121	0.1123	13.7244	3.6496	0.1042	3.7537		18,419.3608	18,419.3608	0.6673		18,436.0427

Commerce Modelo - Los Angeles-South Coast County, Summer

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0664	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665
Total	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665

Commerce Modelo - Los Angeles-South Coast County, Summer

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0664	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665
Total	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665

Commerce Modelo - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	40.2864	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7994	0.5105	7.2549	0.0225	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,243.9818	2,243.9818	0.0580		2,245.4309
Total	0.7994	0.5105	7.2549	0.0225	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,243.9818	2,243.9818	0.0580		2,245.4309

Commerce Modelo - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	40.2864	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7994	0.5105	7.2549	0.0225	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,243.9818	2,243.9818	0.0580		2,245.4309
Total	0.7994	0.5105	7.2549	0.0225	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,243.9818	2,243.9818	0.0580		2,245.4309

Commerce Modelo - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	40.2755	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7562	0.4655	6.7633	0.0218	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,174.4379	2,174.4379	0.0532		2,175.7674
Total	0.7562	0.4655	6.7633	0.0218	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,174.4379	2,174.4379	0.0532		2,175.7674

Commerce Modelo - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	40.2755	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7562	0.4655	6.7633	0.0218	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,174.4379	2,174.4379	0.0532		2,175.7674
Total	0.7562	0.4655	6.7633	0.0218	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,174.4379	2,174.4379	0.0532		2,175.7674

4.0 Operational Detail - Mobile

Commerce Modelo - Los Angeles-South Coast County, Summer

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	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	14.6799	61.1940	141.4638	0.5303	44.3793	0.4044	44.7837	11.8740	0.3755	12.2495		54,192.77 67	54,192.77 67	2.6432		54,258.85 72
Unmitigated	16.5863	70.4224	190.1812	0.7465	64.6928	0.5575	65.2503	17.3091	0.5177	17.8268		76,205.84 72	76,205.84 72	3.5561		76,294.75 04

4.2 Trip Summary Information

Commerce Modelo - Los Angeles-South Coast County, Summer

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	3,791.00	3,680.50	4624.00	13,307,122	9,128,686
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Health Club	375.32	591.80	462.00	895,351	614,210
High Turnover (Sit Down Restaurant)	898.08	720.96	866.08	1,183,217	811,687
Movie Theater (No Matinee)	3,439.15	2,703.80	3278.00	7,016,233	4,813,136
Parking Lot	0.00	0.00	0.00		
Racquet Club	2,032.22	1,334.82	1637.99	3,826,168	2,624,751
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	393.12	414.40	852.60	878,618	602,732
Supermarket	1,464.13	842.89	899.31	1,708,310	1,171,900
Total	12,393.02	10,289.17	12,619.98	28,815,019	19,767,103

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse 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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Commerce Modelo - Los Angeles-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Condo/Townhouse High Rise	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Enclosed Parking with Elevator	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
General Office Building	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Health Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
High Turnover (Sit Down Restaurant)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Movie Theater (No Matinee)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Parking Lot	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Racquet Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Recreational Swimming Pool	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Strip Mall	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Supermarket	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Commerce Modelo - Los Angeles-South Coast County, Summer

	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					
NaturalGas Mitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
NaturalGas Unmitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770

Commerce Modelo - Los Angeles-South Coast County, Summer

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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31196.6	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2509.81	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1090.96	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10115.5	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2727.4	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5506.86	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	125.808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1874.44	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

Commerce Modelo - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

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
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31.1966	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.50981	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1.09096	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10.1155	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2.7274	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5.50686	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.125808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1.87444	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

6.0 Area Detail

Commerce Modelo - Los Angeles-South Coast County, Summer

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Unmitigated	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

Commerce Modelo - Los Angeles-South Coast County, Summer

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1234	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891		126.6348	126.6348	0.1221		129.6875
Total	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

Commerce Modelo - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1234	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891		126.6348	126.6348	0.1221		129.6875
Total	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

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
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Commerce Modelo - Los Angeles-South Coast County, Summer

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

Commerce Modelo - Los Angeles-South Coast County, Winter

Commerce Modelo
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	88.00	1000sqft	2.02	88,000.00	0
Enclosed Parking with Elevator	1,223.00	Space	11.01	489,200.00	0
Parking Lot	50.00	Space	0.45	20,000.00	0
City Park	4.75	Acre	4.75	206,910.00	0
Health Club	22.00	1000sqft	0.51	22,000.00	0
High Turnover (Sit Down Restaurant)	16.00	1000sqft	0.37	16,000.00	0
Movie Theater (No Matinee)	55.00	1000sqft	1.26	55,000.00	0
Racquet Club	111.05	1000sqft	2.55	111,050.00	0
Recreational Swimming Pool	40.36	1000sqft	0.93	40,364.16	0
Condo/Townhouse High Rise	850.00	Dwelling Unit	3.49	850,000.00	2431
Strip Mall	28.00	1000sqft	0.64	28,000.00	0
Supermarket	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	526.82	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

Commerce Modelo - Los Angeles-South Coast County, Winter

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with RPS target of 40% by 2024.

Land Use - Based on applicant provided information. Total acreage is larger than the actual site due to parking being underground.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition -

Grading - Based on applicant provided information.

Architectural Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on traffic report.

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Mobile Land Use Mitigation -

Area Mitigation - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

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Energy Mitigation - Solar for residential in accordance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Parking	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	260.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	45.00	100.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	722.50	0.00
tblFireplaces	NumberNoFireplace	85.00	0.00
tblFireplaces	NumberWood	42.50	0.00

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tblGrading	AcresOfGrading	0.00	250.00
tblGrading	MaterialImported	0.00	85,000.00
tblLandUse	LandUseSquareFeet	40,360.00	40,364.16
tblLandUse	LotAcreage	13.28	3.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	526.82
tblTripsAndVMT	HaulingTripNumber	0.00	49,440.00
tblTripsAndVMT	HaulingTripNumber	10,625.00	10,626.00
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	18.00
tblTripsAndVMT	WorkerTripNumber	53.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	4.33
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	26.90
tblVehicleTrips	ST_TR	158.37	45.06
tblVehicleTrips	ST_TR	99.28	49.16
tblVehicleTrips	ST_TR	21.35	12.02

Commerce Modelo - Los Angeles-South Coast County, Winter

tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	14.80
tblVehicleTrips	ST_TR	177.59	27.19
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	5.44
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	21.00
tblVehicleTrips	SU_TR	131.84	54.13
tblVehicleTrips	SU_TR	81.90	59.60
tblVehicleTrips	SU_TR	17.40	14.75
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	30.45
tblVehicleTrips	SU_TR	166.44	29.01
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	4.46
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	17.06
tblVehicleTrips	WD_TR	127.15	56.13
tblVehicleTrips	WD_TR	78.06	62.53
tblVehicleTrips	WD_TR	14.03	18.30
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	44.32	14.04
tblVehicleTrips	WD_TR	102.24	47.23
tblWoodstoves	NumberCatalytic	42.50	0.00
tblWoodstoves	NumberNoncatalytic	42.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Commerce Modelo - Los Angeles-South Coast County, Winter

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					
2020	9.8136	131.5018	69.8386	0.2611	4.7247	3.8406	8.5653	1.2585	3.6505	4.9090	0.0000	26,853.2866	26,853.2866	3.5591	0.0000	26,942.2641
2021	9.2131	121.6916	69.1761	0.2592	17.3167	3.4604	20.7074	7.5988	3.2852	10.8172	0.0000	26,671.2602	26,671.2602	3.5212	0.0000	26,759.2904
2022	7.5270	85.7299	62.2678	0.2046	21.3220	2.7996	24.1215	8.5819	2.6625	11.2443	0.0000	20,748.6528	20,748.6528	2.9993	0.0000	20,782.8384
2023	41.1809	36.1829	55.7772	0.1983	13.6121	0.8132	14.4253	3.6496	0.7637	4.4132	0.0000	20,123.7460	20,123.7460	1.2790	0.0000	20,155.7211
2024	41.1243	1.7337	7.9633	0.0235	2.3697	0.0787	2.4483	0.6285	0.0773	0.7057	0.0000	2,328.9521	2,328.9521	0.0657	0.0000	2,330.5939
Maximum	41.1809	131.5018	69.8386	0.2611	21.3220	3.8406	24.1215	8.5819	3.6505	11.2443	0.0000	26,853.2866	26,853.2866	3.5591	0.0000	26,942.2641

Commerce Modelo - Los Angeles-South Coast County, Winter

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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	16.0368	71.4757	182.6329	0.7100	64.6928	0.5603	65.2531	17.3091	0.5205	17.8296		72,511.0671	72,511.0671	3.5735		72,600.4037
Total	43.1111	77.5080	256.0954	0.7461	64.6928	1.3603	66.0531	17.3091	1.3205	18.6296	0.0000	79,125.6243	79,125.6243	3.8199	0.1190	79,256.5681

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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	14.1714	61.6766	138.4361	0.5036	44.3793	0.4072	44.7865	11.8740	0.3782	12.2522		51,474.0960	51,474.0960	2.6813		51,541.1296
Total	41.2458	67.7088	211.8986	0.5398	44.3793	1.2073	45.5865	11.8740	1.1782	13.0522	0.0000	58,088.6533	58,088.6533	2.9278	0.1190	58,197.2940

Commerce Modelo - Los Angeles-South Coast County, Winter

	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	4.33	12.64	17.26	27.66	31.40	11.25	30.99	31.40	10.78	29.94	0.00	26.59	26.59	23.35	0.00	26.57

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	5/1/2020	4/29/2021	5	260	
2	Site Preparation	Site Preparation	4/30/2021	9/16/2021	5	100	
3	Grading	Grading	9/17/2021	2/3/2022	5	100	
4	Building Construction	Building Construction	2/4/2022	10/12/2023	5	440	
5	Paving	Paving	10/13/2023	11/30/2023	5	35	
6	Architectural Coating	Architectural Coating	12/1/2023	1/18/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 250

Acres of Paving: 11.46

Residential Indoor: 1,721,250; Residential Outdoor: 573,750; Non-Residential Indoor: 526,575; Non-Residential Outdoor: 175,525; Striped Parking Area: 30,552 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	3	8.00	85	0.78
Demolition	Dumpers/Tenders	4	8.00	16	0.38
Demolition	Excavators	5	8.00	158	0.38

Commerce Modelo - Los Angeles-South Coast County, Winter

Demolition	Generator Sets	3	8.00	84	0.74
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Crushing/Proc. Equipment	3	8.00	85	0.78
Site Preparation	Dumpers/Tenders	4	8.00	16	0.38
Site Preparation	Excavators	5	8.00	158	0.38
Site Preparation	Generator Sets	3	8.00	84	0.74
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crushing/Proc. Equipment	3	8.00	85	0.78
Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	5	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Loaders	4	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Commerce Modelo - Los Angeles-South Coast County, Winter

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	21	16.00	0.00	49,440.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	21	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	21	20.00	0.00	10,626.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,062.00	272.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	212.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Commerce Modelo - Los Angeles-South Coast County, Winter

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	8.0305	76.0591	56.3206	0.1117		3.6620	3.6620		3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	8.0305	76.0591	56.3206	0.1117	0.0000	3.6620	3.6620	0.0000	3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	1.7013	55.3847	12.8763	0.1476	4.5459	0.1772	4.7230	1.2111	0.1695	1.3806		15,993.72 72	15,993.72 72	1.1480		16,022.42 68
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0818	0.0580	0.6416	1.7800e- 003	0.1788	1.4900e- 003	0.1803	0.0474	1.3800e- 003	0.0488		177.1873	177.1873	5.5800e- 003		177.3269
Total	1.7831	55.4427	13.5180	0.1494	4.7247	0.1787	4.9034	1.2585	0.1709	1.4294		16,170.91 45	16,170.91 45	1.1536		16,199.75 37

Commerce Modelo - Los Angeles-South Coast County, Winter

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	8.0305	76.0591	56.3206	0.1117		3.6620	3.6620		3.4796	3.4796	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	8.0305	76.0591	56.3206	0.1117	0.0000	3.6620	3.6620	0.0000	3.4796	3.4796	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	1.7013	55.3847	12.8763	0.1476	4.5459	0.1772	4.7230	1.2111	0.1695	1.3806		15,993.72 72	15,993.72 72	1.1480		16,022.42 68
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0818	0.0580	0.6416	1.7800e- 003	0.1788	1.4900e- 003	0.1803	0.0474	1.3800e- 003	0.0488		177.1873	177.1873	5.5800e- 003		177.3269
Total	1.7831	55.4427	13.5180	0.1494	4.7247	0.1787	4.9034	1.2585	0.1709	1.4294		16,170.91 45	16,170.91 45	1.1536		16,199.75 37

Commerce Modelo - Los Angeles-South Coast County, Winter

3.2 Demolition - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	0.0000	3.3000	3.3000	0.0000	3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	1.6237	51.6324	12.6820	0.1458	8.5009	0.1589	8.6598	2.1819	0.1521	2.3339		15,816.67 55	15,816.67 55	1.1308		15,844.94 57
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	1.6999	51.6846	13.2712	0.1475	8.6797	0.1604	8.8401	2.2293	0.1534	2.3827		15,988.23 57	15,988.23 57	1.1359		16,016.63 21

Commerce Modelo - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	0.0000	3.3000	3.3000	0.0000	3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	1.6237	51.6324	12.6820	0.1458	8.5009	0.1589	8.6598	2.1819	0.1521	2.3339		15,816.67 55	15,816.67 55	1.1308		15,844.94 57
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	1.6999	51.6846	13.2712	0.1475	8.6797	0.1604	8.8401	2.2293	0.1534	2.3827		15,988.23 57	15,988.23 57	1.1359		16,016.63 21

Commerce Modelo - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 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					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	12.0442	3.3000	15.3442	6.6205	3.1318	9.7523		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472

Commerce Modelo - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2021

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					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	4.6972	3.3000	7.9973	2.5820	3.1318	5.7138	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472

Commerce Modelo - Los Angeles-South Coast County, Winter

3.4 Grading - 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					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	14.7916	3.3000	18.0916	6.9213	3.1318	10.0531		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.9073	28.8527	7.0868	0.0815	2.3016	0.0888	2.3905	0.6182	0.0850	0.7032		8,838.527 2	8,838.527 2	0.6319		8,854.324 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	1.0027	28.9180	7.8233	0.0836	2.5252	0.0906	2.6158	0.6775	0.0866	0.7641		9,052.977 4	9,052.977 4	0.6382		9,068.932 9

Commerce Modelo - Los Angeles-South Coast County, Winter

3.4 Grading - 2021

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	5.7687	3.3000	9.0687	2.6993	3.1318	5.8311	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.9073	28.8527	7.0868	0.0815	2.3016	0.0888	2.3905	0.6182	0.0850	0.7032		8,838.527 2	8,838.527 2	0.6319		8,854.324 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	1.0027	28.9180	7.8233	0.0836	2.5252	0.0906	2.6158	0.6775	0.0866	0.7641		9,052.977 4	9,052.977 4	0.6382		9,068.932 9

Commerce Modelo - Los Angeles-South Coast County, Winter

3.4 Grading - 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					
Fugitive Dust					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	6.5739	58.8901	54.5893	0.1117		2.7206	2.7206		2.5870	2.5870		10,683.2596	10,683.2596	2.3718		10,742.5555
Total	6.5739	58.8901	54.5893	0.1117	14.7916	2.7206	17.5122	6.9213	2.5870	9.5083		10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.8635	26.7810	7.0002	0.0804	6.3069	0.0772	6.3841	1.6013	0.0739	1.6752		8,732.6246	8,732.6246	0.6217		8,748.1682
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	0.9531	26.8399	7.6785	0.0825	6.5304	0.0790	6.6094	1.6606	0.0755	1.7361		8,939.5385	8,939.5385	0.6274		8,955.2245

Commerce Modelo - Los Angeles-South Coast County, Winter

3.4 Grading - 2022

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	6.5739	58.8901	54.5893	0.1117		2.7206	2.7206		2.5870	2.5870	0.0000	10,683.2596	10,683.2596	2.3718		10,742.5555
Total	6.5739	58.8901	54.5893	0.1117	5.7687	2.7206	8.4893	2.6993	2.5870	5.2863	0.0000	10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.8635	26.7810	7.0002	0.0804	6.3069	0.0772	6.3841	1.6013	0.0739	1.6752		8,732.6246	8,732.6246	0.6217		8,748.1682
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	0.9531	26.8399	7.6785	0.0825	6.5304	0.0790	6.6094	1.6606	0.0755	1.7361		8,939.5385	8,939.5385	0.6274		8,955.2245

Commerce Modelo - Los Angeles-South Coast County, Winter

3.5 Building 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.8148	25.0456	7.2289	0.0674	1.7414	0.0488	1.7902	0.5014	0.0466	0.5480		7,207.1916	7,207.1916	0.4530		7,218.5154
Worker	4.7561	3.1280	36.0205	0.1103	11.8707	0.0929	11.9636	3.1482	0.0856	3.2337		10,987.1276	10,987.1276	0.3025		10,994.6908
Total	5.5709	28.1736	43.2495	0.1776	13.6121	0.1417	13.7538	3.6495	0.1322	3.7818		18,194.3192	18,194.3192	0.7555		18,213.2062

Commerce Modelo - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.8148	25.0456	7.2289	0.0674	1.7414	0.0488	1.7902	0.5014	0.0466	0.5480		7,207.1916	7,207.1916	0.4530		7,218.5154
Worker	4.7561	3.1280	36.0205	0.1103	11.8707	0.0929	11.9636	3.1482	0.0856	3.2337		10,987.1276	10,987.1276	0.3025		10,994.6908
Total	5.5709	28.1736	43.2495	0.1776	13.6121	0.1417	13.7538	3.6495	0.1322	3.7818		18,194.3192	18,194.3192	0.7555		18,213.2062

Commerce Modelo - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.6054	18.9689	6.4236	0.0652	1.7415	0.0232	1.7646	0.5014	0.0221	0.5235		6,983.3636	6,983.3636	0.3988		6,993.3324
Worker	4.4807	2.8291	33.1096	0.1062	11.8707	0.0903	11.9609	3.1482	0.0831	3.2313		10,585.1725	10,585.1725	0.2724		10,591.9827
Total	5.0861	21.7981	39.5332	0.1714	13.6121	0.1134	13.7255	3.6496	0.1053	3.7548		17,568.5361	17,568.5361	0.6712		17,585.3150

Commerce Modelo - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.6054	18.9689	6.4236	0.0652	1.7415	0.0232	1.7646	0.5014	0.0221	0.5235		6,983.3636	6,983.3636	0.3988		6,993.3324
Worker	4.4807	2.8291	33.1096	0.1062	11.8707	0.0903	11.9609	3.1482	0.0831	3.2313		10,585.1725	10,585.1725	0.2724		10,591.9827
Total	5.0861	21.7981	39.5332	0.1714	13.6121	0.1134	13.7255	3.6496	0.1053	3.7548		17,568.5361	17,568.5361	0.6712		17,585.3150

Commerce Modelo - Los Angeles-South Coast County, Winter

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0664	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779
Total	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779

Commerce Modelo - Los Angeles-South Coast County, Winter

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0664	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779
Total	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779

Commerce Modelo - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	40.2864	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8945	0.5648	6.6095	0.0212	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,113.0476	2,113.0476	0.0544		2,114.4071
Total	0.8945	0.5648	6.6095	0.0212	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,113.0476	2,113.0476	0.0544		2,114.4071

Commerce Modelo - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	40.2864	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8945	0.5648	6.6095	0.0212	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,113.0476	2,113.0476	0.0544		2,114.4071
Total	0.8945	0.5648	6.6095	0.0212	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,113.0476	2,113.0476	0.0544		2,114.4071

Commerce Modelo - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	40.2755	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8488	0.5149	6.1531	0.0205	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,047.5040	2,047.5040	0.0498		2,048.7497
Total	0.8488	0.5149	6.1531	0.0205	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,047.5040	2,047.5040	0.0498		2,048.7497

Commerce Modelo - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	40.2755	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8488	0.5149	6.1531	0.0205	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,047.5040	2,047.5040	0.0498		2,048.7497
Total	0.8488	0.5149	6.1531	0.0205	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,047.5040	2,047.5040	0.0498		2,048.7497

4.0 Operational Detail - Mobile

Commerce Modelo - Los Angeles-South Coast County, Winter

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	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	14.1714	61.6766	138.4361	0.5036	44.3793	0.4072	44.7865	11.8740	0.3782	12.2522		51,474.09 60	51,474.09 60	2.6813		51,541.12 96
Unmitigated	16.0368	71.4757	182.6329	0.7100	64.6928	0.5603	65.2531	17.3091	0.5205	17.8296		72,511.067 1	72,511.067 1	3.5735		72,600.40 37

4.2 Trip Summary Information

Commerce Modelo - Los Angeles-South Coast County, Winter

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	3,791.00	3,680.50	4624.00	13,307,122	9,128,686
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Health Club	375.32	591.80	462.00	895,351	614,210
High Turnover (Sit Down Restaurant)	898.08	720.96	866.08	1,183,217	811,687
Movie Theater (No Matinee)	3,439.15	2,703.80	3278.00	7,016,233	4,813,136
Parking Lot	0.00	0.00	0.00		
Racquet Club	2,032.22	1,334.82	1637.99	3,826,168	2,624,751
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	393.12	414.40	852.60	878,618	602,732
Supermarket	1,464.13	842.89	899.31	1,708,310	1,171,900
Total	12,393.02	10,289.17	12,619.98	28,815,019	19,767,103

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse 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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Commerce Modelo - Los Angeles-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Condo/Townhouse High Rise	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Enclosed Parking with Elevator	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
General Office Building	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Health Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
High Turnover (Sit Down Restaurant)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Movie Theater (No Matinee)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Parking Lot	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Racquet Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Recreational Swimming Pool	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Strip Mall	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Supermarket	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Commerce Modelo - Los Angeles-South Coast County, Winter

	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					
NaturalGas Mitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
NaturalGas Unmitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770

Commerce Modelo - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31196.6	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2509.81	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1090.96	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10115.5	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2727.4	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5506.86	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	125.808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1874.44	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

Commerce Modelo - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

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
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31.1966	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.50981	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1.09096	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10.1155	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2.7274	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5.50686	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.125808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1.87444	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

6.0 Area Detail

Commerce Modelo - Los Angeles-South Coast County, Winter

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Unmitigated	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

Commerce Modelo - Los Angeles-South Coast County, Winter

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1234	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891		126.6348	126.6348	0.1221		129.6875
Total	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

Commerce Modelo - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1234	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891		126.6348	126.6348	0.1221		129.6875
Total	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

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
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Commerce Modelo - Los Angeles-South Coast County, Winter

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

Commerce Modelo LST - Los Angeles-South Coast County, Summer

Commerce Modelo LST
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	88.00	1000sqft	2.02	88,000.00	0
Enclosed Parking with Elevator	1,223.00	Space	11.01	489,200.00	0
Parking Lot	50.00	Space	0.45	20,000.00	0
City Park	4.75	Acre	4.75	206,910.00	0
Health Club	22.00	1000sqft	0.51	22,000.00	0
High Turnover (Sit Down Restaurant)	16.00	1000sqft	0.37	16,000.00	0
Movie Theater (No Matinee)	55.00	1000sqft	1.26	55,000.00	0
Racquet Club	111.05	1000sqft	2.55	111,050.00	0
Recreational Swimming Pool	40.36	1000sqft	0.93	40,364.16	0
Condo/Townhouse High Rise	850.00	Dwelling Unit	3.49	850,000.00	2431
Strip Mall	28.00	1000sqft	0.64	28,000.00	0
Supermarket	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

Commerce Modelo LST - Los Angeles-South Coast County, Summer

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on applicant provided information. Total acreage is larger than the actual site due to parking being underground.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition -

Grading - Based on applicant provided information.

Architectural Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Vehicle Trips -

Woodstoves - No wood.

Consumer Products - CalEEMod defaults.

Area Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Mobile Land Use Mitigation -

Area Mitigation - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Commerce Modelo LST - Los Angeles-South Coast County, Summer

Energy Mitigation - Solar for residential in accordance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Parking	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	260.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	45.00	100.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	722.50	850.00
tblFireplaces	NumberWood	42.50	0.00
tblGrading	AcresOfGrading	0.00	250.00
tblGrading	MaterialImported	0.00	85,000.00
tblLandUse	LandUseSquareFeet	40,360.00	40,364.16

Commerce Modelo LST - Los Angeles-South Coast County, Summer

tblLandUse	LotAcreage	13.28	3.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	10,625.00	10,626.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19

Commerce Modelo LST - Los Angeles-South Coast County, Summer

tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	18.00
tblTripsAndVMT	WorkerTripNumber	53.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	HO_TL	8.70	0.19
tblVehicleTrips	HS_TL	5.90	0.19
tblVehicleTrips	HW_TL	14.70	0.19
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	14.14
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	99.28	0.00
tblVehicleTrips	ST_TR	21.35	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	17.77
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	81.90	0.00
tblVehicleTrips	SU_TR	17.40	0.00
tblVehicleTrips	SU_TR	13.60	0.00

Commerce Modelo LST - Los Angeles-South Coast County, Summer

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	14.58
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	78.06	0.00
tblVehicleTrips	WD_TR	14.03	0.00
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblWoodstoves	NumberCatalytic	42.50	0.00
tblWoodstoves	NumberNoncatalytic	42.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Commerce Modelo LST - Los Angeles-South Coast County, Summer

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					
2020	8.3829	94.7004	58.7687	0.1333	0.0497	3.6717	3.7213	0.0136	3.4889	3.5025	0.0000	13,014.7170	13,014.7170	2.7260	0.0000	13,082.8679
2021	7.8434	88.0490	58.2438	0.1331	14.8187	3.3084	18.1235	6.9288	3.1398	10.0652	0.0000	12,994.9539	12,994.9539	2.6893	0.0000	13,062.1857
2022	6.7584	68.6456	55.8962	0.1236	14.8568	2.7246	17.5813	6.9381	2.5908	9.5289	0.0000	11,968.3067	11,968.3067	2.5326	0.0000	12,031.6209
2023	40.4793	28.2171	22.9010	0.0466	0.2187	0.7109	0.9296	0.0613	0.6689	0.7302	0.0000	4,638.5643	4,638.5643	0.8096	0.0000	4,658.8033
2024	40.4545	1.2618	2.4598	3.6900e-003	0.0327	0.0624	0.0951	8.9400e-003	0.0623	0.0712	0.0000	351.9878	351.9878	0.0194	0.0000	352.4725
Maximum	40.4793	94.7004	58.7687	0.1333	14.8568	3.6717	18.1235	6.9381	3.4889	10.0652	0.0000	13,014.7170	13,014.7170	2.7260	0.0000	13,082.8679

Commerce Modelo LST - Los Angeles-South Coast County, Summer

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	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.6348	18,126.6348	0.4669	0.3300	18,236.6465
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	10.1256	39.6581	37.1658	0.0725	1.6459	0.0787	1.7247	0.4404	0.0728	0.5132		7,568.6320	7,568.6320	0.6892		7,585.8616
Total	38.8458	59.7897	116.5912	0.1987	1.6459	2.0190	3.6649	0.4404	2.0130	2.4534	0.0000	32,183.1892	32,183.1892	1.2804	0.4490	32,348.9850

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	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.6348	18,126.6348	0.4669	0.3300	18,236.6465
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	10.0771	39.4233	35.9263	0.0670	1.1291	0.0748	1.2039	0.3021	0.0691	0.3713		7,008.5671	7,008.5671	0.6660		7,025.2160
Total	38.7973	59.5549	115.3517	0.1932	1.1291	2.0151	3.1442	0.3021	2.0094	2.3115	0.0000	31,623.1243	31,623.1243	1.2572	0.4490	31,788.3394

Commerce Modelo LST - Los Angeles-South Coast County, Summer

	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	0.12	0.39	1.06	2.77	31.40	0.19	14.21	31.40	0.18	5.78	0.00	1.74	1.74	1.81	0.00	1.73

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	5/1/2020	4/29/2021	5	260	
2	Site Preparation	Site Preparation	4/30/2021	9/16/2021	5	100	
3	Grading	Grading	9/17/2021	2/3/2022	5	100	
4	Building Construction	Building Construction	2/4/2022	10/12/2023	5	440	
5	Paving	Paving	10/13/2023	11/30/2023	5	35	
6	Architectural Coating	Architectural Coating	12/1/2023	1/18/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 250

Acres of Paving: 11.46

Residential Indoor: 1,721,250; Residential Outdoor: 573,750; Non-Residential Indoor: 526,575; Non-Residential Outdoor: 175,525; Striped Parking Area: 30,552 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	3	8.00	85	0.78
Demolition	Dumpers/Tenders	4	8.00	16	0.38
Demolition	Excavators	5	8.00	158	0.38

Commerce Modelo LST - Los Angeles-South Coast County, Summer

Demolition	Generator Sets	3	8.00	84	0.74
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Crushing/Proc. Equipment	3	8.00	85	0.78
Site Preparation	Dumpers/Tenders	4	8.00	16	0.38
Site Preparation	Excavators	5	8.00	158	0.38
Site Preparation	Generator Sets	3	8.00	84	0.74
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crushing/Proc. Equipment	3	8.00	85	0.78
Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	5	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Loaders	4	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Commerce Modelo LST - Los Angeles-South Coast County, Summer

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	21	16.00	0.00	49,440.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	21	18.00	0.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	21	20.00	0.00	10,626.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,062.00	272.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	212.00	0.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	8.0305	76.0591	56.3206	0.1117		3.6620	3.6620		3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	8.0305	76.0591	56.3206	0.1117	0.0000	3.6620	3.6620	0.0000	3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	0.3338	18.6361	2.3760	0.0215	0.0472	9.5900e-003	0.0568	0.0130	9.1700e-003	0.0221		2,326.247 2	2,326.247 2	0.3201		2,334.249 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0186	5.2300e-003	0.0721	6.0000e-005	2.4700e-003	1.2000e-004	2.5900e-003	6.7000e-004	1.1000e-004	7.9000e-004		6.0977	6.0977	4.3000e-004		6.1083
Total	0.3525	18.6413	2.4481	0.0216	0.0497	9.7100e-003	0.0594	0.0136	9.2800e-003	0.0229		2,332.344 9	2,332.344 9	0.3205		2,340.357 5

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	8.0305	76.0591	56.3206	0.1117		3.6620	3.6620		3.4796	3.4796	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	8.0305	76.0591	56.3206	0.1117	0.0000	3.6620	3.6620	0.0000	3.4796	3.4796	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	0.3338	18.6361	2.3760	0.0215	0.0472	9.5900e-003	0.0568	0.0130	9.1700e-003	0.0221		2,326.247 2	2,326.247 2	0.3201		2,334.249 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0186	5.2300e-003	0.0721	6.0000e-005	2.4700e-003	1.2000e-004	2.5900e-003	6.7000e-004	1.1000e-004	7.9000e-004		6.0977	6.0977	4.3000e-004		6.1083
Total	0.3525	18.6413	2.4481	0.0216	0.0497	9.7100e-003	0.0594	0.0136	9.2800e-003	0.0229		2,332.344 9	2,332.344 9	0.3205		2,340.357 5

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.2 Demolition - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	0.0000	3.3000	3.3000	0.0000	3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.3132	18.0373	2.2739	0.0213	0.0848	8.2400e-003	0.0930	0.0222	7.8800e-003	0.0301		2,306.021 5	2,306.021 5	0.3036		2,313.610 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0171	4.6000e-003	0.0651	6.0000e-005	2.4700e-003	1.2000e-004	2.5900e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.9079	5.9079	3.8000e-004		5.9173
Total	0.3302	18.0419	2.3389	0.0214	0.0872	8.3600e-003	0.0956	0.0229	7.9900e-003	0.0308		2,311.929 4	2,311.929 4	0.3039		2,319.527 5

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.2 Demolition - 2021

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	0.0000	3.3000	3.3000	0.0000	3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.3132	18.0373	2.2739	0.0213	0.0848	8.2400e-003	0.0930	0.0222	7.8800e-003	0.0301		2,306.021 5	2,306.021 5	0.3036		2,313.610 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0171	4.6000e-003	0.0651	6.0000e-005	2.4700e-003	1.2000e-004	2.5900e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.9079	5.9079	3.8000e-004		5.9173
Total	0.3302	18.0419	2.3389	0.0214	0.0872	8.3600e-003	0.0956	0.0229	7.9900e-003	0.0308		2,311.929 4	2,311.929 4	0.3039		2,319.527 5

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.3 Site Preparation - 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					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	12.0442	3.3000	15.3442	6.6205	3.1318	9.7523		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0192	5.1800e-003	0.0732	7.0000e-005	2.7800e-003	1.3000e-004	2.9100e-003	7.6000e-004	1.2000e-004	8.8000e-004		6.6463	6.6463	4.2000e-004		6.6570
Total	0.0192	5.1800e-003	0.0732	7.0000e-005	2.7800e-003	1.3000e-004	2.9100e-003	7.6000e-004	1.2000e-004	8.8000e-004		6.6463	6.6463	4.2000e-004		6.6570

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.3 Site Preparation - 2021

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					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	4.6972	3.3000	7.9973	2.5820	3.1318	5.7138	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0192	5.1800e-003	0.0732	7.0000e-005	2.7800e-003	1.3000e-004	2.9100e-003	7.6000e-004	1.2000e-004	8.8000e-004		6.6463	6.6463	4.2000e-004		6.6570
Total	0.0192	5.1800e-003	0.0732	7.0000e-005	2.7800e-003	1.3000e-004	2.9100e-003	7.6000e-004	1.2000e-004	8.8000e-004		6.6463	6.6463	4.2000e-004		6.6570

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.4 Grading - 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					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	14.7916	3.3000	18.0916	6.9213	3.1318	10.0531		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.1750	10.0795	1.2707	0.0119	0.0241	4.6000e-003	0.0287	6.6800e-003	4.4000e-003	0.0111		1,288.629 5	1,288.629 5	0.1696		1,292.870 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0214	5.7600e-003	0.0813	8.0000e-005	3.0800e-003	1.5000e-004	3.2300e-003	8.4000e-004	1.4000e-004	9.8000e-004		7.3848	7.3848	4.7000e-004		7.3966
Total	0.1964	10.0852	1.3520	0.0120	0.0272	4.7500e-003	0.0319	7.5200e-003	4.5400e-003	0.0121		1,296.014 3	1,296.014 3	0.1701		1,300.266 7

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.4 Grading - 2021

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	5.7687	3.3000	9.0687	2.6993	3.1318	5.8311	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.1750	10.0795	1.2707	0.0119	0.0241	4.6000e-003	0.0287	6.6800e-003	4.4000e-003	0.0111		1,288.629 5	1,288.629 5	0.1696		1,292.870 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0214	5.7600e-003	0.0813	8.0000e-005	3.0800e-003	1.5000e-004	3.2300e-003	8.4000e-004	1.4000e-004	9.8000e-004		7.3848	7.3848	4.7000e-004		7.3966
Total	0.1964	10.0852	1.3520	0.0120	0.0272	4.7500e-003	0.0319	7.5200e-003	4.5400e-003	0.0121		1,296.014 3	1,296.014 3	0.1701		1,300.266 7

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.4 Grading - 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					
Fugitive Dust					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	6.5739	58.8901	54.5893	0.1117		2.7206	2.7206		2.5870	2.5870		10,683.2596	10,683.2596	2.3718		10,742.5555
Total	6.5739	58.8901	54.5893	0.1117	14.7916	2.7206	17.5122	6.9213	2.5870	9.5083		10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.1648	9.7504	1.2332	0.0118	0.0622	3.8000e-003	0.0660	0.0160	3.6400e-003	0.0197		1,277.9135	1,277.9135	0.1603		1,281.9213
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0197	5.0900e-003	0.0737	7.0000e-005	3.0800e-003	1.5000e-004	3.2300e-003	8.4000e-004	1.3000e-004	9.8000e-004		7.1336	7.1336	4.2000e-004		7.1441
Total	0.1845	9.7555	1.3069	0.0119	0.0652	3.9500e-003	0.0692	0.0169	3.7700e-003	0.0206		1,285.0471	1,285.0471	0.1607		1,289.0654

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.4 Grading - 2022

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	6.5739	58.8901	54.5893	0.1117		2.7206	2.7206		2.5870	2.5870	0.0000	10,683.2596	10,683.2596	2.3718		10,742.5555
Total	6.5739	58.8901	54.5893	0.1117	5.7687	2.7206	8.4893	2.6993	2.5870	5.2863	0.0000	10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.1648	9.7504	1.2332	0.0118	0.0622	3.8000e-003	0.0660	0.0160	3.6400e-003	0.0197		1,277.9135	1,277.9135	0.1603		1,281.9213
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0197	5.0900e-003	0.0737	7.0000e-005	3.0800e-003	1.5000e-004	3.2300e-003	8.4000e-004	1.3000e-004	9.8000e-004		7.1336	7.1336	4.2000e-004		7.1441
Total	0.1845	9.7555	1.3069	0.0119	0.0652	3.9500e-003	0.0692	0.0169	3.7700e-003	0.0206		1,285.0471	1,285.0471	0.1607		1,289.0654

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.5 Building 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.3473	15.6986	3.4414	0.0167	0.0549	5.6300e-003	0.0605	0.0165	5.3700e-003	0.0219		1,796.9268	1,796.9268	0.2243		1,802.5334
Worker	1.0457	0.2705	3.9136	3.8500e-003	0.1638	7.7400e-003	0.1715	0.0448	7.1200e-003	0.0519		378.7954	378.7954	0.0223		379.3519
Total	1.3930	15.9691	7.3551	0.0205	0.2187	0.0134	0.2321	0.0613	0.0125	0.0738		2,175.7221	2,175.7221	0.2465		2,181.8853

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.3473	15.6986	3.4414	0.0167	0.0549	5.6300e-003	0.0605	0.0165	5.3700e-003	0.0219		1,796.9268	1,796.9268	0.2243		1,802.5334
Worker	1.0457	0.2705	3.9136	3.8500e-003	0.1638	7.7400e-003	0.1715	0.0448	7.1200e-003	0.0519		378.7954	378.7954	0.0223		379.3519
Total	1.3930	15.9691	7.3551	0.0205	0.2187	0.0134	0.2321	0.0613	0.0125	0.0738		2,175.7221	2,175.7221	0.2465		2,181.8853

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.2737	13.5916	3.1047	0.0159	0.0549	3.6300e-003	0.0585	0.0165	3.4600e-003	0.0200		1,718.0280	1,718.0280	0.1819		1,722.5761
Worker	0.9662	0.2406	3.5523	3.7100e-003	0.1638	7.5800e-003	0.1714	0.0448	6.9800e-003	0.0518		365.3264	365.3264	0.0198		365.8212
Total	1.2399	13.8322	6.6570	0.0196	0.2187	0.0112	0.2299	0.0613	0.0104	0.0718		2,083.3544	2,083.3544	0.2017		2,088.3972

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.2737	13.5916	3.1047	0.0159	0.0549	3.6300e-003	0.0585	0.0165	3.4600e-003	0.0200		1,718.0280	1,718.0280	0.1819		1,722.5761
Worker	0.9662	0.2406	3.5523	3.7100e-003	0.1638	7.5800e-003	0.1714	0.0448	6.9800e-003	0.0518		365.3264	365.3264	0.0198		365.8212
Total	1.2399	13.8322	6.6570	0.0196	0.2187	0.0112	0.2299	0.0613	0.0104	0.0718		2,083.3544	2,083.3544	0.2017		2,088.3972

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0664	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0146	3.6200e-003	0.0535	6.0000e-005	2.4700e-003	1.1000e-004	2.5800e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.5040	5.5040	3.0000e-004		5.5114
Total	0.0146	3.6200e-003	0.0535	6.0000e-005	2.4700e-003	1.1000e-004	2.5800e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.5040	5.5040	3.0000e-004		5.5114

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0664	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0146	3.6200e-003	0.0535	6.0000e-005	2.4700e-003	1.1000e-004	2.5800e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.5040	5.5040	3.0000e-004		5.5114
Total	0.0146	3.6200e-003	0.0535	6.0000e-005	2.4700e-003	1.1000e-004	2.5800e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.5040	5.5040	3.0000e-004		5.5114

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	40.2864	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1929	0.0480	0.7091	7.4000e-004	0.0327	1.5100e-003	0.0342	8.9400e-003	1.3900e-003	0.0103		72.9277	72.9277	3.9500e-003		73.0264
Total	0.1929	0.0480	0.7091	7.4000e-004	0.0327	1.5100e-003	0.0342	8.9400e-003	1.3900e-003	0.0103		72.9277	72.9277	3.9500e-003		73.0264

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	40.2864	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1929	0.0480	0.7091	7.4000e-004	0.0327	1.5100e-003	0.0342	8.9400e-003	1.3900e-003	0.0103		72.9277	72.9277	3.9500e-003		73.0264
Total	0.1929	0.0480	0.7091	7.4000e-004	0.0327	1.5100e-003	0.0342	8.9400e-003	1.3900e-003	0.0103		72.9277	72.9277	3.9500e-003		73.0264

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	40.2755	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1790	0.0430	0.6497	7.2000e-004	0.0327	1.4900e-003	0.0342	8.9400e-003	1.3700e-003	0.0103		70.5397	70.5397	3.5400e-003		70.6283
Total	0.1790	0.0430	0.6497	7.2000e-004	0.0327	1.4900e-003	0.0342	8.9400e-003	1.3700e-003	0.0103		70.5397	70.5397	3.5400e-003		70.6283

Commerce Modelo LST - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	40.2755	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1790	0.0430	0.6497	7.2000e-004	0.0327	1.4900e-003	0.0342	8.9400e-003	1.3700e-003	0.0103		70.5397	70.5397	3.5400e-003		70.6283
Total	0.1790	0.0430	0.6497	7.2000e-004	0.0327	1.4900e-003	0.0342	8.9400e-003	1.3700e-003	0.0103		70.5397	70.5397	3.5400e-003		70.6283

4.0 Operational Detail - Mobile

Commerce Modelo LST - Los Angeles-South Coast County, Summer

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	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	10.0771	39.4233	35.9263	0.0670	1.1291	0.0748	1.2039	0.3021	0.0691	0.3713		7,008.5671	7,008.5671	0.6660		7,025.2160
Unmitigated	10.1256	39.6581	37.1658	0.0725	1.6459	0.0787	1.7247	0.4404	0.0728	0.5132		7,568.6320	7,568.6320	0.6892		7,585.8616

4.2 Trip Summary Information

Commerce Modelo LST - Los Angeles-South Coast County, Summer

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	12,393.00	12,019.00	15,104.50	795,070	545,418
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Movie Theater (No Matinee)	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Racquet Club	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Total	12,393.00	12,019.00	15,104.50	795,070	545,418

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	0.19	0.19	0.19	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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Commerce Modelo LST - Los Angeles-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Condo/Townhouse High Rise	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Enclosed Parking with Elevator	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
General Office Building	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Health Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
High Turnover (Sit Down Restaurant)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Movie Theater (No Matinee)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Parking Lot	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Racquet Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Recreational Swimming Pool	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Strip Mall	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Supermarket	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Commerce Modelo LST - Los Angeles-South Coast County, Summer

	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					
NaturalGas Mitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
NaturalGas Unmitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770

Commerce Modelo LST - Los Angeles-South Coast County, Summer

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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31196.6	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2509.81	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1090.96	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10115.5	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2727.4	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5506.86	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	125.808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1874.44	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

Commerce Modelo LST - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

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
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31.1966	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.50981	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1.09096	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10.1155	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2.7274	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5.50686	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.125808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1.87444	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

6.0 Area Detail

Commerce Modelo LST - Los Angeles-South Coast County, Summer

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.63 48	18,126.63 48	0.4669	0.3300	18,236.64 65
Unmitigated	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.63 48	18,126.63 48	0.4669	0.3300	18,236.64 65

Commerce Modelo LST - Los Angeles-South Coast County, Summer

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.1192	0.8085	70.2296	3.7200e-003		0.3893	0.3893		0.3893	0.3893		126.6348	126.6348	0.1219		129.6815
Total	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.6348	18,126.6348	0.4669	0.3300	18,236.6465

Commerce Modelo LST - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.1192	0.8085	70.2296	3.7200e-003		0.3893	0.3893		0.3893	0.3893		126.6348	126.6348	0.1219		129.6815
Total	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.6348	18,126.6348	0.4669	0.3300	18,236.6465

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
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Commerce Modelo LST - Los Angeles-South Coast County, Summer

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

Commerce Modelo LST - Los Angeles-South Coast County, Winter

Commerce Modelo LST
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	88.00	1000sqft	2.02	88,000.00	0
Enclosed Parking with Elevator	1,223.00	Space	11.01	489,200.00	0
Parking Lot	50.00	Space	0.45	20,000.00	0
City Park	4.75	Acre	4.75	206,910.00	0
Health Club	22.00	1000sqft	0.51	22,000.00	0
High Turnover (Sit Down Restaurant)	16.00	1000sqft	0.37	16,000.00	0
Movie Theater (No Matinee)	55.00	1000sqft	1.26	55,000.00	0
Racquet Club	111.05	1000sqft	2.55	111,050.00	0
Recreational Swimming Pool	40.36	1000sqft	0.93	40,364.16	0
Condo/Townhouse High Rise	850.00	Dwelling Unit	3.49	850,000.00	2431
Strip Mall	28.00	1000sqft	0.64	28,000.00	0
Supermarket	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

Commerce Modelo LST - Los Angeles-South Coast County, Winter

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on applicant provided information. Total acreage is larger than the actual site due to parking being underground.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition -

Grading - Based on applicant provided information.

Architectural Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Vehicle Trips -

Woodstoves - No wood.

Consumer Products - CalEEMod defaults.

Area Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Mobile Land Use Mitigation -

Area Mitigation - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Commerce Modelo LST - Los Angeles-South Coast County, Winter

Energy Mitigation - Solar for residential in accordance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Parking	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	260.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	45.00	100.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	722.50	850.00
tblFireplaces	NumberWood	42.50	0.00
tblGrading	AcresOfGrading	0.00	250.00
tblGrading	MaterialImported	0.00	85,000.00
tblLandUse	LandUseSquareFeet	40,360.00	40,364.16

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tblLandUse	LotAcreage	13.28	3.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	10,625.00	10,626.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19

Commerce Modelo LST - Los Angeles-South Coast County, Winter

tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	18.00
tblTripsAndVMT	WorkerTripNumber	53.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	HO_TL	8.70	0.19
tblVehicleTrips	HS_TL	5.90	0.19
tblVehicleTrips	HW_TL	14.70	0.19
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	14.14
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	99.28	0.00
tblVehicleTrips	ST_TR	21.35	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	17.77
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	81.90	0.00
tblVehicleTrips	SU_TR	17.40	0.00
tblVehicleTrips	SU_TR	13.60	0.00

Commerce Modelo LST - Los Angeles-South Coast County, Winter

tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	14.58
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	78.06	0.00
tblVehicleTrips	WD_TR	14.03	0.00
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblWoodstoves	NumberCatalytic	42.50	0.00
tblWoodstoves	NumberNoncatalytic	42.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Commerce Modelo LST - Los Angeles-South Coast County, Winter

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					
2020	8.4227	94.0004	59.6100	0.1307	0.0497	3.6744	3.7240	0.0136	3.4914	3.5051	0.0000	12,734.2577	12,734.2577	2.7668	0.0000	12,803.4271
2021	7.8810	87.3847	59.0450	0.1305	14.8187	3.3108	18.1248	6.9288	3.1421	10.0665	0.0000	12,715.9194	12,715.9194	2.7282	0.0000	12,784.1248
2022	6.7776	68.2934	56.3301	0.1221	14.8568	2.7257	17.5825	6.9381	2.5919	9.5300	0.0000	11,812.7221	11,812.7221	2.5533	0.0000	11,876.5550
2023	40.4646	27.9318	23.9849	0.0447	0.2187	0.7121	0.9308	0.0613	0.6700	0.7313	0.0000	4,430.7937	4,430.7937	0.8335	0.0000	4,451.6298
2024	40.4404	1.2661	2.5562	3.6600e-003	0.0327	0.0624	0.0951	8.9400e-003	0.0623	0.0712	0.0000	349.5006	349.5006	0.0197	0.0000	349.9932
Maximum	40.4646	94.0004	59.6100	0.1307	14.8568	3.6744	18.1248	6.9381	3.4914	10.0665	0.0000	12,734.2577	12,734.2577	2.7668	0.0000	12,803.4271

Commerce Modelo LST - Los Angeles-South Coast County, Winter

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	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.6348	18,126.6348	0.4669	0.3300	18,236.6465
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	9.7251	38.9794	43.2937	0.0667	1.6459	0.0814	1.7274	0.4404	0.0753	0.5157		6,933.6783	6,933.6783	0.7667		6,952.8462
Total	38.4453	59.1111	122.7191	0.1929	1.6459	2.0217	3.6676	0.4404	2.0156	2.4560	0.0000	31,548.2355	31,548.2355	1.3579	0.4490	31,715.9697

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	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.6348	18,126.6348	0.4669	0.3300	18,236.6465
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	9.6777	38.7301	42.1692	0.0615	1.1291	0.0775	1.2066	0.3021	0.0717	0.3738		6,398.4476	6,398.4476	0.7440		6,417.0482
Total	38.3979	58.8617	121.5947	0.1876	1.1291	2.0178	3.1469	0.3021	2.0120	2.3141	0.0000	31,013.0048	31,013.0048	1.3352	0.4490	31,180.1716

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	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	0.12	0.42	0.92	2.72	31.40	0.19	14.20	31.40	0.18	5.78	0.00	1.70	1.70	1.67	0.00	1.69

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	5/1/2020	4/29/2021	5	260	
2	Site Preparation	Site Preparation	4/30/2021	9/16/2021	5	100	
3	Grading	Grading	9/17/2021	2/3/2022	5	100	
4	Building Construction	Building Construction	2/4/2022	10/12/2023	5	440	
5	Paving	Paving	10/13/2023	11/30/2023	5	35	
6	Architectural Coating	Architectural Coating	12/1/2023	1/18/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 250

Acres of Paving: 11.46

Residential Indoor: 1,721,250; Residential Outdoor: 573,750; Non-Residential Indoor: 526,575; Non-Residential Outdoor: 175,525; Striped Parking Area: 30,552 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	3	8.00	85	0.78
Demolition	Dumpers/Tenders	4	8.00	16	0.38
Demolition	Excavators	5	8.00	158	0.38

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Demolition	Generator Sets	3	8.00	84	0.74
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Crushing/Proc. Equipment	3	8.00	85	0.78
Site Preparation	Dumpers/Tenders	4	8.00	16	0.38
Site Preparation	Excavators	5	8.00	158	0.38
Site Preparation	Generator Sets	3	8.00	84	0.74
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crushing/Proc. Equipment	3	8.00	85	0.78
Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	5	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Loaders	4	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	21	16.00	0.00	49,440.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	21	18.00	0.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	21	20.00	0.00	10,626.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,062.00	272.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	212.00	0.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	8.0305	76.0591	56.3206	0.1117		3.6620	3.6620		3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	8.0305	76.0591	56.3206	0.1117	0.0000	3.6620	3.6620	0.0000	3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	0.3748	17.9355	3.2059	0.0190	0.0472	0.0123	0.0595	0.0130	0.0117	0.0247		2,046.003 2	2,046.003 2	0.3608		2,055.022 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0174	5.7500e- 003	0.0834	6.0000e- 005	2.4700e- 003	1.2000e- 004	2.5900e- 003	6.7000e- 004	1.1000e- 004	7.9000e- 004		5.8823	5.8823	4.7000e- 004		5.8940
Total	0.3922	17.9413	3.2893	0.0190	0.0497	0.0124	0.0620	0.0136	0.0119	0.0255		2,051.885 5	2,051.885 5	0.3613		2,060.916 7

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	8.0305	76.0591	56.3206	0.1117		3.6620	3.6620		3.4796	3.4796	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	8.0305	76.0591	56.3206	0.1117	0.0000	3.6620	3.6620	0.0000	3.4796	3.4796	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	0.3748	17.9355	3.2059	0.0190	0.0472	0.0123	0.0595	0.0130	0.0117	0.0247		2,046.003 2	2,046.003 2	0.3608		2,055.022 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0174	5.7500e- 003	0.0834	6.0000e- 005	2.4700e- 003	1.2000e- 004	2.5900e- 003	6.7000e- 004	1.1000e- 004	7.9000e- 004		5.8823	5.8823	4.7000e- 004		5.8940
Total	0.3922	17.9413	3.2893	0.0190	0.0497	0.0124	0.0620	0.0136	0.0119	0.0255		2,051.885 5	2,051.885 5	0.3613		2,060.916 7

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.2 Demolition - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	0.0000	3.3000	3.3000	0.0000	3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.3519	17.3726	3.0650	0.0188	0.0848	0.0106	0.0954	0.0222	0.0102	0.0323		2,027.195 7	2,027.195 7	0.3425		2,035.756 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0159	5.0600e-003	0.0751	6.0000e-005	2.4700e-003	1.2000e-004	2.5900e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.6993	5.6993	4.1000e-004		5.7096
Total	0.3678	17.3776	3.1401	0.0188	0.0872	0.0107	0.0980	0.0229	0.0103	0.0331		2,032.895 0	2,032.895 0	0.3429		2,041.466 5

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	0.0000	3.3000	3.3000	0.0000	3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.3519	17.3726	3.0650	0.0188	0.0848	0.0106	0.0954	0.0222	0.0102	0.0323		2,027.195 7	2,027.195 7	0.3425		2,035.756 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0159	5.0600e-003	0.0751	6.0000e-005	2.4700e-003	1.2000e-004	2.5900e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.6993	5.6993	4.1000e-004		5.7096
Total	0.3678	17.3776	3.1401	0.0188	0.0872	0.0107	0.0980	0.0229	0.0103	0.0331		2,032.895 0	2,032.895 0	0.3429		2,041.466 5

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 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					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.0245	10,683.0245	2.3854		10,742.6583
Total	7.5132	70.0071	55.9049	0.1117	12.0442	3.3000	15.3442	6.6205	3.1318	9.7523		10,683.0245	10,683.0245	2.3854		10,742.6583

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0179	5.6900e-003	0.0845	7.0000e-005	2.7800e-003	1.3000e-004	2.9100e-003	7.6000e-004	1.2000e-004	8.8000e-004		6.4117	6.4117	4.7000e-004		6.4234
Total	0.0179	5.6900e-003	0.0845	7.0000e-005	2.7800e-003	1.3000e-004	2.9100e-003	7.6000e-004	1.2000e-004	8.8000e-004		6.4117	6.4117	4.7000e-004		6.4234

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2021

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					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	4.6972	3.3000	7.9973	2.5820	3.1318	5.7138	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0179	5.6900e-003	0.0845	7.0000e-005	2.7800e-003	1.3000e-004	2.9100e-003	7.6000e-004	1.2000e-004	8.8000e-004		6.4117	6.4117	4.7000e-004		6.4234
Total	0.0179	5.6900e-003	0.0845	7.0000e-005	2.7800e-003	1.3000e-004	2.9100e-003	7.6000e-004	1.2000e-004	8.8000e-004		6.4117	6.4117	4.7000e-004		6.4234

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.4 Grading - 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					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	14.7916	3.3000	18.0916	6.9213	3.1318	10.0531		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.1967	9.7080	1.7128	0.0105	0.0241	5.9300e-003	0.0300	6.6800e-003	5.6700e-003	0.0124		1,132.818 6	1,132.818 6	0.1914		1,137.602 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0199	6.3300e-003	0.0939	7.0000e-005	3.0800e-003	1.5000e-004	3.2300e-003	8.4000e-004	1.4000e-004	9.8000e-004		7.1241	7.1241	5.2000e-004		7.1371
Total	0.2165	9.7143	1.8066	0.0106	0.0272	6.0800e-003	0.0333	7.5200e-003	5.8100e-003	0.0133		1,139.942 7	1,139.942 7	0.1919		1,144.739 7

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.4 Grading - 2021

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	5.7687	3.3000	9.0687	2.6993	3.1318	5.8311	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.1967	9.7080	1.7128	0.0105	0.0241	5.9300e-003	0.0300	6.6800e-003	5.6700e-003	0.0124		1,132.818 6	1,132.818 6	0.1914		1,137.602 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0199	6.3300e-003	0.0939	7.0000e-005	3.0800e-003	1.5000e-004	3.2300e-003	8.4000e-004	1.4000e-004	9.8000e-004		7.1241	7.1241	5.2000e-004		7.1371
Total	0.2165	9.7143	1.8066	0.0106	0.0272	6.0800e-003	0.0333	7.5200e-003	5.8100e-003	0.0133		1,139.942 7	1,139.942 7	0.1919		1,144.739 7

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.4 Grading - 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					
Fugitive Dust					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	6.5739	58.8901	54.5893	0.1117		2.7206	2.7206		2.5870	2.5870		10,683.2596	10,683.2596	2.3718		10,742.5555
Total	6.5739	58.8901	54.5893	0.1117	14.7916	2.7206	17.5122	6.9213	2.5870	9.5083		10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.1855	9.3978	1.6559	0.0104	0.0622	4.9900e-003	0.0671	0.0160	4.7700e-003	0.0208		1,122.5802	1,122.5802	0.1810		1,127.1058
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0183	5.6000e-003	0.0850	7.0000e-005	3.0800e-003	1.5000e-004	3.2300e-003	8.4000e-004	1.3000e-004	9.8000e-004		6.8823	6.8823	4.6000e-004		6.8937
Total	0.2037	9.4034	1.7408	0.0104	0.0652	5.1400e-003	0.0704	0.0169	4.9000e-003	0.0218		1,129.4624	1,129.4624	0.1815		1,133.9995

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.4 Grading - 2022

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	6.5739	58.8901	54.5893	0.1117		2.7206	2.7206		2.5870	2.5870	0.0000	10,683.2596	10,683.2596	2.3718		10,742.5555
Total	6.5739	58.8901	54.5893	0.1117	5.7687	2.7206	8.4893	2.6993	2.5870	5.2863	0.0000	10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.1855	9.3978	1.6559	0.0104	0.0622	4.9900e-003	0.0671	0.0160	4.7700e-003	0.0208		1,122.5802	1,122.5802	0.1810		1,127.1058
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0183	5.6000e-003	0.0850	7.0000e-005	3.0800e-003	1.5000e-004	3.2300e-003	8.4000e-004	1.3000e-004	9.8000e-004		6.8823	6.8823	4.6000e-004		6.8937
Total	0.2037	9.4034	1.7408	0.0104	0.0652	5.1400e-003	0.0704	0.0169	4.9000e-003	0.0218		1,129.4624	1,129.4624	0.1815		1,133.9995

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.5 Building 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.3809	15.2544	4.1660	0.0148	0.0549	7.1700e-003	0.0621	0.0165	6.8500e-003	0.0234		1,592.5022	1,592.5022	0.2522		1,598.8063
Worker	0.9691	0.2973	4.5108	3.7300e-003	0.1638	7.7400e-003	0.1715	0.0448	7.1200e-003	0.0519		365.4476	365.4476	0.0244		366.0562
Total	1.3500	15.5516	8.6768	0.0185	0.2187	0.0149	0.2336	0.0613	0.0140	0.0753		1,957.9498	1,957.9498	0.2765		1,964.8625

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.3809	15.2544	4.1660	0.0148	0.0549	7.1700e-003	0.0621	0.0165	6.8500e-003	0.0234		1,592.5022	1,592.5022	0.2522		1,598.8063
Worker	0.9691	0.2973	4.5108	3.7300e-003	0.1638	7.7400e-003	0.1715	0.0448	7.1200e-003	0.0519		365.4476	365.4476	0.0244		366.0562
Total	1.3500	15.5516	8.6768	0.0185	0.2187	0.0149	0.2336	0.0613	0.0140	0.0753		1,957.9498	1,957.9498	0.2765		1,964.8625

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.2984	13.2825	3.6542	0.0141	0.0549	4.7600e-003	0.0597	0.0165	4.5500e-003	0.0211		1,523.1095	1,523.1095	0.2040		1,528.2095
Worker	0.8925	0.2644	4.0867	3.5900e-003	0.1638	7.5800e-003	0.1714	0.0448	6.9800e-003	0.0518		352.4742	352.4742	0.0216		353.0142
Total	1.1908	13.5469	7.7409	0.0177	0.2187	0.0123	0.2310	0.0613	0.0115	0.0729		1,875.5838	1,875.5838	0.2256		1,881.2237

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.2984	13.2825	3.6542	0.0141	0.0549	4.7600e-003	0.0597	0.0165	4.5500e-003	0.0211		1,523.1095	1,523.1095	0.2040		1,528.2095
Worker	0.8925	0.2644	4.0867	3.5900e-003	0.1638	7.5800e-003	0.1714	0.0448	6.9800e-003	0.0518		352.4742	352.4742	0.0216		353.0142
Total	1.1908	13.5469	7.7409	0.0177	0.2187	0.0123	0.2310	0.0613	0.0115	0.0729		1,875.5838	1,875.5838	0.2256		1,881.2237

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0664	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0135	3.9800e-003	0.0616	5.0000e-005	2.4700e-003	1.1000e-004	2.5800e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.3104	5.3104	3.3000e-004		5.3185
Total	0.0135	3.9800e-003	0.0616	5.0000e-005	2.4700e-003	1.1000e-004	2.5800e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.3104	5.3104	3.3000e-004		5.3185

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0664	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0135	3.9800e-003	0.0616	5.0000e-005	2.4700e-003	1.1000e-004	2.5800e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.3104	5.3104	3.3000e-004		5.3185
Total	0.0135	3.9800e-003	0.0616	5.0000e-005	2.4700e-003	1.1000e-004	2.5800e-003	6.7000e-004	1.1000e-004	7.8000e-004		5.3104	5.3104	3.3000e-004		5.3185

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	40.2864	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1782	0.0528	0.8158	7.2000e-004	0.0327	1.5100e-003	0.0342	8.9400e-003	1.3900e-003	0.0103		70.3621	70.3621	4.3100e-003		70.4699
Total	0.1782	0.0528	0.8158	7.2000e-004	0.0327	1.5100e-003	0.0342	8.9400e-003	1.3900e-003	0.0103		70.3621	70.3621	4.3100e-003		70.4699

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	40.2864	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1782	0.0528	0.8158	7.2000e-004	0.0327	1.5100e-003	0.0342	8.9400e-003	1.3900e-003	0.0103		70.3621	70.3621	4.3100e-003		70.4699
Total	0.1782	0.0528	0.8158	7.2000e-004	0.0327	1.5100e-003	0.0342	8.9400e-003	1.3900e-003	0.0103		70.3621	70.3621	4.3100e-003		70.4699

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	40.2755	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1649	0.0473	0.7460	6.9000e-004	0.0327	1.4900e-003	0.0342	8.9400e-003	1.3700e-003	0.0103		68.0525	68.0525	3.8600e-003		68.1489
Total	0.1649	0.0473	0.7460	6.9000e-004	0.0327	1.4900e-003	0.0342	8.9400e-003	1.3700e-003	0.0103		68.0525	68.0525	3.8600e-003		68.1489

Commerce Modelo LST - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	40.2755	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1649	0.0473	0.7460	6.9000e-004	0.0327	1.4900e-003	0.0342	8.9400e-003	1.3700e-003	0.0103		68.0525	68.0525	3.8600e-003		68.1489
Total	0.1649	0.0473	0.7460	6.9000e-004	0.0327	1.4900e-003	0.0342	8.9400e-003	1.3700e-003	0.0103		68.0525	68.0525	3.8600e-003		68.1489

4.0 Operational Detail - Mobile

Commerce Modelo LST - Los Angeles-South Coast County, Winter

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	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	9.6777	38.7301	42.1692	0.0615	1.1291	0.0775	1.2066	0.3021	0.0717	0.3738		6,398.4476	6,398.4476	0.7440		6,417.0482
Unmitigated	9.7251	38.9794	43.2937	0.0667	1.6459	0.0814	1.7274	0.4404	0.0753	0.5157		6,933.6783	6,933.6783	0.7667		6,952.8462

4.2 Trip Summary Information

Commerce Modelo LST - Los Angeles-South Coast County, Winter

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	12,393.00	12,019.00	15,104.50	795,070	545,418
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Movie Theater (No Matinee)	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Racquet Club	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Total	12,393.00	12,019.00	15,104.50	795,070	545,418

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	0.19	0.19	0.19	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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Commerce Modelo LST - Los Angeles-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Condo/Townhouse High Rise	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Enclosed Parking with Elevator	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
General Office Building	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Health Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
High Turnover (Sit Down Restaurant)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Movie Theater (No Matinee)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Parking Lot	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Racquet Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Recreational Swimming Pool	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Strip Mall	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Supermarket	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Commerce Modelo LST - Los Angeles-South Coast County, Winter

	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					
NaturalGas Mitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
NaturalGas Unmitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770

Commerce Modelo LST - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31196.6	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2509.81	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1090.96	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10115.5	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2727.4	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5506.86	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	125.808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1874.44	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

Commerce Modelo LST - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

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
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31.1966	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.50981	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1.09096	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10.1155	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2.7274	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5.50686	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.125808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1.87444	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

6.0 Area Detail

Commerce Modelo LST - Los Angeles-South Coast County, Winter

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.63 48	18,126.63 48	0.4669	0.3300	18,236.64 65
Unmitigated	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.63 48	18,126.63 48	0.4669	0.3300	18,236.64 65

Commerce Modelo LST - Los Angeles-South Coast County, Winter

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.1192	0.8085	70.2296	3.7200e-003		0.3893	0.3893		0.3893	0.3893		126.6348	126.6348	0.1219		129.6815
Total	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.6348	18,126.6348	0.4669	0.3300	18,236.6465

Commerce Modelo LST - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.1192	0.8085	70.2296	3.7200e-003		0.3893	0.3893		0.3893	0.3893		126.6348	126.6348	0.1219		129.6815
Total	28.1254	14.9085	76.2296	0.0937		1.5293	1.5293		1.5293	1.5293	0.0000	18,126.6348	18,126.6348	0.4669	0.3300	18,236.6465

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
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Commerce Modelo LST - Los Angeles-South Coast County, Winter

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

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

Commerce Modelo - Mitigated
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	88.00	1000sqft	2.02	88,000.00	0
Enclosed Parking with Elevator	1,223.00	Space	11.01	489,200.00	0
Parking Lot	50.00	Space	0.45	20,000.00	0
City Park	4.75	Acre	4.75	206,910.00	0
Health Club	22.00	1000sqft	0.51	22,000.00	0
High Turnover (Sit Down Restaurant)	16.00	1000sqft	0.37	16,000.00	0
Movie Theater (No Matinee)	55.00	1000sqft	1.26	55,000.00	0
Racquet Club	111.05	1000sqft	2.55	111,050.00	0
Recreational Swimming Pool	40.36	1000sqft	0.93	40,364.16	0
Condo/Townhouse High Rise	850.00	Dwelling Unit	3.49	850,000.00	2431
Strip Mall	28.00	1000sqft	0.64	28,000.00	0
Supermarket	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	526.83	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with RPS goal of 40% by 2024.

Land Use - Based on applicant provided information. Total acreage is larger than the actual site due to parking being underground.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition -

Grading - Based on applicant provided information.

Architectural Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Vehicle Trips -

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403. Tier 4 Final construction equipment.

Mobile Land Use Mitigation -

Area Mitigation - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

Energy Mitigation - Solar for residential in accordance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Parking	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	260.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	45.00	100.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

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tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	722.50	0.00
tblFireplaces	NumberNoFireplace	85.00	0.00
tblFireplaces	NumberWood	42.50	0.00
tblGrading	AcresOfGrading	0.00	250.00
tblGrading	MaterialImported	0.00	85,000.00
tblLandUse	LandUseSquareFeet	40,360.00	40,364.16
tblLandUse	LotAcreage	13.28	3.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	526.83
tblTripsAndVMT	HaulingTripNumber	0.00	49,440.00
tblTripsAndVMT	HaulingTripNumber	10,625.00	10,626.00
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	18.00
tblTripsAndVMT	WorkerTripNumber	53.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	4.33
tblVehicleTrips	ST_TR	2.46	0.00

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tblVehicleTrips	ST_TR	20.87	26.90
tblVehicleTrips	ST_TR	158.37	45.06
tblVehicleTrips	ST_TR	99.28	49.16
tblVehicleTrips	ST_TR	21.35	12.02
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	14.80
tblVehicleTrips	ST_TR	177.59	27.19
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	5.44
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	21.00
tblVehicleTrips	SU_TR	131.84	54.13
tblVehicleTrips	SU_TR	81.90	59.60
tblVehicleTrips	SU_TR	17.40	14.75
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	30.45
tblVehicleTrips	SU_TR	166.44	29.01
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	4.46
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	17.06
tblVehicleTrips	WD_TR	127.15	56.13
tblVehicleTrips	WD_TR	78.06	62.53
tblVehicleTrips	WD_TR	14.03	18.30
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	44.32	14.04
tblVehicleTrips	WD_TR	102.24	47.23

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tblWoodstoves	NumberCatalytic	42.50	0.00
tblWoodstoves	NumberNoncatalytic	42.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2020	0.8560	11.6015	6.0748	0.0230	0.4057	0.3359	0.7416	0.1082	0.3193	0.4275	0.0000	2,144.714 4	2,144.714 4	0.2807	0.0000	2,151.732 5
2021	1.0926	12.4987	8.1663	0.0242	1.6627	0.4409	2.1036	0.7185	0.4185	1.1370	0.0000	2,211.7371	2,211.7371	0.3472	0.0000	2,220.417 1
2022	0.8906	6.2662	7.8547	0.0268	1.9340	0.1457	2.0797	0.5371	0.1373	0.6744	0.0000	2,467.987 2	2,467.987 2	0.1778	0.0000	2,472.432 2
2023	1.0826	3.9280	6.1123	0.0212	1.3892	0.0928	1.4820	0.3730	0.0870	0.4600	0.0000	1,949.613 7	1,949.613 7	0.1298	0.0000	1,952.857 4
2024	0.2873	0.0122	0.0570	1.7000e-004	0.0163	5.5000e-004	0.0168	4.3200e-003	5.4000e-004	4.8600e-003	0.0000	15.0058	15.0058	4.2000e-004	0.0000	15.0164
Maximum	1.0926	12.4987	8.1663	0.0268	1.9340	0.4409	2.1036	0.7185	0.4185	1.1370	0.0000	2,467.987 2	2,467.987 2	0.3472	0.0000	2,472.432 2

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2.1 Overall Construction

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	tons/yr										MT/yr					
2020	0.2622	5.4180	6.7247	0.0230	0.4057	0.0300	0.4357	0.1082	0.0293	0.1376	0.0000	2,144.7134	2,144.7134	0.2807	0.0000	2,151.7315
2021	0.2745	4.0663	9.1899	0.0242	0.9324	0.0319	0.9642	0.3539	0.0315	0.3854	0.0000	2,211.7356	2,211.7356	0.3472	0.0000	2,220.4156
2022	0.6640	4.0453	8.0940	0.0268	1.7621	0.0244	1.7864	0.4795	0.0232	0.5027	0.0000	2,467.9867	2,467.9867	0.1778	0.0000	2,472.4317
2023	0.9408	2.5193	6.2841	0.0212	1.3892	0.0166	1.4058	0.3730	0.0157	0.3887	0.0000	1,949.6133	1,949.6133	0.1298	0.0000	1,952.8571
2024	0.2862	4.6000e-003	0.0571	1.7000e-004	0.0163	1.5000e-004	0.0164	4.3200e-003	1.4000e-004	4.4600e-003	0.0000	15.0058	15.0058	4.2000e-004	0.0000	15.0164
Maximum	0.9408	5.4180	9.1899	0.0268	1.7621	0.0319	1.7864	0.4795	0.0315	0.5027	0.0000	2,467.9867	2,467.9867	0.3472	0.0000	2,472.4317

	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	42.32	53.21	-7.38	0.00	16.68	89.86	28.26	24.25	89.63	47.52	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2020	7-31-2020	4.6182	2.0732
2	8-1-2020	10-31-2020	4.6266	2.0817
3	11-1-2020	1-31-2021	4.5280	2.0557
4	2-1-2021	4-30-2021	4.1349	1.8817
5	5-1-2021	7-31-2021	2.5514	0.2223
6	8-1-2021	10-31-2021	3.0282	0.6991

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7	11-1-2021	1-31-2022	3.3732	1.1775
8	2-1-2022	4-30-2022	1.6602	1.1438
9	5-1-2022	7-31-2022	1.6528	1.1678
10	8-1-2022	10-31-2022	1.6612	1.1763
11	11-1-2022	1-31-2023	1.5868	1.1170
12	2-1-2023	4-30-2023	1.3543	0.9286
13	5-1-2023	7-31-2023	1.3849	0.9448
14	8-1-2023	10-31-2023	1.1790	0.7638
15	11-1-2023	1-31-2024	0.8739	0.7469
		Highest	4.6266	2.0817

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	4.7104	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063
Energy	0.1085	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	3,943.4886	3,943.4886	0.1785	0.0524	3,963.5586
Mobile	2.6538	12.3751	31.6888	0.1240	10.9340	0.0959	11.0299	2.9302	0.0891	3.0193	0.0000	11,488.1093	11,488.1093	0.5526	0.0000	11,501.9232
Waste						0.0000	0.0000		0.0000	0.0000	440.4559	0.0000	440.4559	26.0302	0.0000	1,091.2108
Water						0.0000	0.0000		0.0000	0.0000	36.2042	513.1985	549.4027	3.7468	0.0937	670.9787
Total	7.4728	13.4295	41.0553	0.1304	10.9340	0.2196	11.1535	2.9302	0.2127	3.1430	476.6601	15,959.1565	16,435.8166	30.5219	0.1460	17,242.3776

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2.2 Overall Operational

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	4.7104	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063
Energy	0.1085	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	3,068.4761	3,068.4761	0.1304	0.0424	3,084.3722
Mobile	2.3300	10.6503	23.8690	0.0880	7.5007	0.0696	7.5703	2.0101	0.0646	2.0747	0.0000	8,162.0937	8,162.0937	0.4124	0.0000	8,172.4036
Waste						0.0000	0.0000		0.0000	0.0000	220.2279	0.0000	220.2279	13.0151	0.0000	545.6054
Water						0.0000	0.0000		0.0000	0.0000	28.9634	432.5365	461.4999	2.9986	0.0752	558.8655
Total	7.1490	11.7047	33.2356	0.0944	7.5007	0.1932	7.6939	2.0101	0.1882	2.1984	249.1913	11,677.4664	11,926.6577	16.5703	0.1176	12,375.9530

	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	4.33	12.84	19.05	27.60	31.40	12.00	31.02	31.40	11.51	30.05	47.72	26.83	27.43	45.71	19.48	28.22

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2020	4/29/2021	5	260	
2	Site Preparation	Site Preparation	4/30/2021	9/16/2021	5	100	
3	Grading	Grading	9/17/2021	2/3/2022	5	100	
4	Building Construction	Building Construction	2/4/2022	10/12/2023	5	440	
5	Paving	Paving	10/13/2023	11/30/2023	5	35	
6	Architectural Coating	Architectural Coating	12/1/2023	1/18/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 250

Acres of Paving: 11.46

Residential Indoor: 1,721,250; Residential Outdoor: 573,750; Non-Residential Indoor: 526,575; Non-Residential Outdoor: 175,525; Striped Parking Area: 30,552 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	3	8.00	85	0.78
Demolition	Dumpers/Tenders	4	8.00	16	0.38
Demolition	Excavators	5	8.00	158	0.38
Demolition	Generator Sets	3	8.00	84	0.74
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Crushing/Proc. Equipment	3	8.00	85	0.78
Site Preparation	Dumpers/Tenders	4	8.00	16	0.38
Site Preparation	Excavators	5	8.00	158	0.38

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Site Preparation	Generator Sets	3	8.00	84	0.74
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crushing/Proc. Equipment	3	8.00	85	0.78
Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	5	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Loaders	4	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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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	21	16.00	0.00	49,440.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	21	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	21	20.00	0.00	10,626.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,062.00	272.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	212.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7027	6.6552	4.9281	9.7700e-003		0.3204	0.3204		0.3045	0.3045	0.0000	847.9524	847.9524	0.1910	0.0000	852.7261
Total	0.7027	6.6552	4.9281	9.7700e-003	0.0000	0.3204	0.3204	0.0000	0.3045	0.3045	0.0000	847.9524	847.9524	0.1910	0.0000	852.7261

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3.2 Demolition - 2020

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	0.1468	4.9411	1.0891	0.0131	0.3904	0.0154	0.4057	0.1042	0.0147	0.1189	0.0000	1,282.4630	1,282.4630	0.0893	0.0000	1,284.6962
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4600e-003	5.2100e-003	0.0576	1.6000e-004	0.0153	1.3000e-004	0.0155	4.0700e-003	1.2000e-004	4.2000e-003	0.0000	14.2989	14.2989	4.5000e-004	0.0000	14.3102
Total	0.1533	4.9463	1.1467	0.0132	0.4057	0.0155	0.4212	0.1082	0.0148	0.1231	0.0000	1,296.7620	1,296.7620	0.0898	0.0000	1,299.0063

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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1088	0.4717	5.5780	9.7700e-003		0.0145	0.0145		0.0145	0.0145	0.0000	847.9514	847.9514	0.1910	0.0000	852.7251
Total	0.1088	0.4717	5.5780	9.7700e-003	0.0000	0.0145	0.0145	0.0000	0.0145	0.0145	0.0000	847.9514	847.9514	0.1910	0.0000	852.7251

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3.2 Demolition - 2020

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	tons/yr										MT/yr					
Hauling	0.1468	4.9411	1.0891	0.0131	0.3904	0.0154	0.4057	0.1042	0.0147	0.1189	0.0000	1,282.4630	1,282.4630	0.0893	0.0000	1,284.6962
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4600e-003	5.2100e-003	0.0576	1.6000e-004	0.0153	1.3000e-004	0.0155	4.0700e-003	1.2000e-004	4.2000e-003	0.0000	14.2989	14.2989	4.5000e-004	0.0000	14.3102
Total	0.1533	4.9463	1.1467	0.0132	0.4057	0.0155	0.4212	0.1082	0.0148	0.1231	0.0000	1,296.7620	1,296.7620	0.0898	0.0000	1,299.0063

3.2 Demolition - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3193	2.9753	2.3760	4.7500e-003		0.1403	0.1403		0.1331	0.1331	0.0000	411.8878	411.8878	0.0920	0.0000	414.1870
Total	0.3193	2.9753	2.3760	4.7500e-003	0.0000	0.1403	0.1403	0.0000	0.1331	0.1331	0.0000	411.8878	411.8878	0.0920	0.0000	414.1870

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3.2 Demolition - 2021

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	0.0681	2.2372	0.5216	6.2600e-003	0.3539	6.7000e-003	0.3606	0.0909	6.4100e-003	0.0973	0.0000	616.0526	616.0526	0.0428	0.0000	617.1216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9300e-003	2.2800e-003	0.0257	7.0000e-005	7.4500e-003	6.0000e-005	7.5100e-003	1.9800e-003	6.0000e-005	2.0400e-003	0.0000	6.7246	6.7246	2.0000e-004	0.0000	6.7296
Total	0.0710	2.2395	0.5473	6.3300e-003	0.3614	6.7600e-003	0.3681	0.0929	6.4700e-003	0.0994	0.0000	622.7773	622.7773	0.0430	0.0000	623.8512

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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0529	0.2291	2.7093	4.7500e-003		7.0500e-003	7.0500e-003		7.0500e-003	7.0500e-003	0.0000	411.8873	411.8873	0.0920	0.0000	414.1865
Total	0.0529	0.2291	2.7093	4.7500e-003	0.0000	7.0500e-003	7.0500e-003	0.0000	7.0500e-003	7.0500e-003	0.0000	411.8873	411.8873	0.0920	0.0000	414.1865

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3.2 Demolition - 2021

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	tons/yr										MT/yr					
Hauling	0.0681	2.2372	0.5216	6.2600e-003	0.3539	6.7000e-003	0.3606	0.0909	6.4100e-003	0.0973	0.0000	616.0526	616.0526	0.0428	0.0000	617.1216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9300e-003	2.2800e-003	0.0257	7.0000e-005	7.4500e-003	6.0000e-005	7.5100e-003	1.9800e-003	6.0000e-005	2.0400e-003	0.0000	6.7246	6.7246	2.0000e-004	0.0000	6.7296
Total	0.0710	2.2395	0.5473	6.3300e-003	0.3614	6.7600e-003	0.3681	0.0929	6.4700e-003	0.0994	0.0000	622.7773	622.7773	0.0430	0.0000	623.8512

3.3 Site Preparation - 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					
Fugitive Dust					0.6022	0.0000	0.6022	0.3310	0.0000	0.3310	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3757	3.5004	2.7953	5.5800e-003		0.1650	0.1650		0.1566	0.1566	0.0000	484.5738	484.5738	0.1082	0.0000	487.2788
Total	0.3757	3.5004	2.7953	5.5800e-003	0.6022	0.1650	0.7672	0.3310	0.1566	0.4876	0.0000	484.5738	484.5738	0.1082	0.0000	487.2788

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3.3 Site Preparation - 2021

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8700e-003	3.0100e-003	0.0340	1.0000e-004	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.9003	8.9003	2.6000e-004	0.0000	8.9068
Total	3.8700e-003	3.0100e-003	0.0340	1.0000e-004	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.9003	8.9003	2.6000e-004	0.0000	8.9068

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	tons/yr										MT/yr					
Fugitive Dust					0.2349	0.0000	0.2349	0.1291	0.0000	0.1291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.2695	3.1874	5.5800e-003		8.2900e-003	8.2900e-003		8.2900e-003	8.2900e-003	0.0000	484.5733	484.5733	0.1082	0.0000	487.2782
Total	0.0622	0.2695	3.1874	5.5800e-003	0.2349	8.2900e-003	0.2432	0.1291	8.2900e-003	0.1374	0.0000	484.5733	484.5733	0.1082	0.0000	487.2782

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3.3 Site Preparation - 2021

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8700e-003	3.0100e-003	0.0340	1.0000e-004	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.9003	8.9003	2.6000e-004	0.0000	8.9068
Total	3.8700e-003	3.0100e-003	0.0340	1.0000e-004	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.9003	8.9003	2.6000e-004	0.0000	8.9068

3.4 Grading - 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					
Fugitive Dust					0.5951	0.0000	0.5951	0.2666	0.0000	0.2666	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2855	2.6603	2.1244	4.2400e-003		0.1254	0.1254		0.1190	0.1190	0.0000	368.2761	368.2761	0.0822	0.0000	370.3319
Total	0.2855	2.6603	2.1244	4.2400e-003	0.5951	0.1254	0.7205	0.2666	0.1190	0.3856	0.0000	368.2761	368.2761	0.0822	0.0000	370.3319

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3.4 Grading - 2021

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	0.0340	1.1178	0.2606	3.1300e-003	0.0859	3.3500e-003	0.0892	0.0231	3.2000e-003	0.0263	0.0000	307.8061	307.8061	0.0214	0.0000	308.3402
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2700e-003	2.5500e-003	0.0287	8.0000e-005	8.3300e-003	7.0000e-005	8.4000e-003	2.2100e-003	6.0000e-005	2.2800e-003	0.0000	7.5158	7.5158	2.2000e-004	0.0000	7.5213
Total	0.0373	1.1203	0.2894	3.2100e-003	0.0942	3.4200e-003	0.0976	0.0253	3.2600e-003	0.0286	0.0000	315.3218	315.3218	0.0216	0.0000	315.8615

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	tons/yr										MT/yr					
Fugitive Dust					0.2321	0.0000	0.2321	0.1040	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0473	0.2048	2.4224	4.2400e-003		6.3000e-003	6.3000e-003		6.3000e-003	6.3000e-003	0.0000	368.2757	368.2757	0.0822	0.0000	370.3314
Total	0.0473	0.2048	2.4224	4.2400e-003	0.2321	6.3000e-003	0.2384	0.1040	6.3000e-003	0.1103	0.0000	368.2757	368.2757	0.0822	0.0000	370.3314

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3.4 Grading - 2021

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	tons/yr										MT/yr					
Hauling	0.0340	1.1178	0.2606	3.1300e-003	0.0859	3.3500e-003	0.0892	0.0231	3.2000e-003	0.0263	0.0000	307.8061	307.8061	0.0214	0.0000	308.3402
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2700e-003	2.5500e-003	0.0287	8.0000e-005	8.3300e-003	7.0000e-005	8.4000e-003	2.2100e-003	6.0000e-005	2.2800e-003	0.0000	7.5158	7.5158	2.2000e-004	0.0000	7.5213
Total	0.0373	1.1203	0.2894	3.2100e-003	0.0942	3.4200e-003	0.0976	0.0253	3.2600e-003	0.0286	0.0000	315.3218	315.3218	0.0216	0.0000	315.8615

3.4 Grading - 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					
Fugitive Dust					0.2819	0.0000	0.2819	0.0945	0.0000	0.0945	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0789	0.7067	0.6551	1.3400e-003		0.0327	0.0327		0.0310	0.0310	0.0000	116.3003	116.3003	0.0258	0.0000	116.9458
Total	0.0789	0.7067	0.6551	1.3400e-003	0.2819	0.0327	0.3146	0.0945	0.0310	0.1255	0.0000	116.3003	116.3003	0.0258	0.0000	116.9458

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3.4 Grading - 2022

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	0.0102	0.3276	0.0814	9.7000e-004	0.0741	9.2000e-004	0.0750	0.0188	8.8000e-004	0.0197	0.0000	96.0460	96.0460	6.6400e-003	0.0000	96.2121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.3000e-004	8.3600e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2900	2.2900	6.0000e-005	0.0000	2.2916
Total	0.0112	0.3284	0.0898	1.0000e-003	0.0767	9.4000e-004	0.0777	0.0195	9.0000e-004	0.0204	0.0000	98.3360	98.3360	6.7000e-003	0.0000	98.5036

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	tons/yr										MT/yr					
Fugitive Dust					0.1099	0.0000	0.1099	0.0369	0.0000	0.0369	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.0647	0.7650	1.3400e-003		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	116.3001	116.3001	0.0258	0.0000	116.9457
Total	0.0149	0.0647	0.7650	1.3400e-003	0.1099	1.9900e-003	0.1119	0.0369	1.9900e-003	0.0388	0.0000	116.3001	116.3001	0.0258	0.0000	116.9457

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3.4 Grading - 2022

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	tons/yr										MT/yr					
Hauling	0.0102	0.3276	0.0814	9.7000e-004	0.0741	9.2000e-004	0.0750	0.0188	8.8000e-004	0.0197	0.0000	96.0460	96.0460	6.6400e-003	0.0000	96.2121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.3000e-004	8.3600e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2900	2.2900	6.0000e-005	0.0000	2.2916
Total	0.0112	0.3284	0.0898	1.0000e-003	0.0767	9.4000e-004	0.0777	0.0195	9.0000e-004	0.0204	0.0000	98.3360	98.3360	6.7000e-003	0.0000	98.5036

3.5 Building 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	0.2013	1.8427	1.9309	3.1800e-003		0.0955	0.0955		0.0898	0.0898	0.0000	273.4358	273.4358	0.0655	0.0000	275.0735
Total	0.2013	1.8427	1.9309	3.1800e-003		0.0955	0.0955		0.0898	0.0898	0.0000	273.4358	273.4358	0.0655	0.0000	275.0735

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3.5 Building Construction - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0936	3.0094	0.8126	8.0800e-003	0.2022	5.6500e-003	0.2078	0.0584	5.4000e-003	0.0638	0.0000	784.2065	784.2065	0.0468	0.0000	785.3775
Worker	0.5056	0.3792	4.3664	0.0132	1.3732	0.0110	1.3842	0.3647	0.0101	0.3748	0.0000	1,195.7086	1,195.7086	0.0329	0.0000	1,196.5319
Total	0.5992	3.3885	5.1789	0.0213	1.5754	0.0166	1.5920	0.4231	0.0155	0.4386	0.0000	1,979.9151	1,979.9151	0.0798	0.0000	1,981.9093

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	tons/yr										MT/yr					
Off-Road	0.0387	0.2637	2.0603	3.1800e-003		4.8100e-003	4.8100e-003		4.8100e-003	4.8100e-003	0.0000	273.4355	273.4355	0.0655	0.0000	275.0732
Total	0.0387	0.2637	2.0603	3.1800e-003		4.8100e-003	4.8100e-003		4.8100e-003	4.8100e-003	0.0000	273.4355	273.4355	0.0655	0.0000	275.0732

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3.5 Building Construction - 2022

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0936	3.0094	0.8126	8.0800e-003	0.2022	5.6500e-003	0.2078	0.0584	5.4000e-003	0.0638	0.0000	784.2065	784.2065	0.0468	0.0000	785.3775
Worker	0.5056	0.3792	4.3664	0.0132	1.3732	0.0110	1.3842	0.3647	0.0101	0.3748	0.0000	1,195.7086	1,195.7086	0.0329	0.0000	1,196.5319
Total	0.5992	3.3885	5.1789	0.0213	1.5754	0.0166	1.5920	0.4231	0.0155	0.4386	0.0000	1,979.9151	1,979.9151	0.0798	0.0000	1,981.9093

3.5 Building Construction - 2023

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	0.1604	1.4673	1.6569	2.7500e-003		0.0714	0.0714		0.0672	0.0672	0.0000	236.4408	236.4408	0.0563	0.0000	237.8470
Total	0.1604	1.4673	1.6569	2.7500e-003		0.0714	0.0714		0.0672	0.0672	0.0000	236.4408	236.4408	0.0563	0.0000	237.8470

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3.5 Building Construction - 2023

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0600	1.9654	0.6302	6.7600e-003	0.1748	2.2900e-003	0.1771	0.0504	2.1900e-003	0.0526	0.0000	656.6518	656.6518	0.0358	0.0000	657.5463
Worker	0.4110	0.2965	3.4707	0.0110	1.1870	9.2100e-003	1.1962	0.3153	8.4800e-003	0.3238	0.0000	995.7570	995.7570	0.0256	0.0000	996.3979
Total	0.4710	2.2618	4.1009	0.0178	1.3618	0.0115	1.3733	0.3657	0.0107	0.3764	0.0000	1,652.4087	1,652.4087	0.0614	0.0000	1,653.9441

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	tons/yr										MT/yr					
Off-Road	0.0334	0.2279	1.7809	2.7500e-003		4.1600e-003	4.1600e-003		4.1600e-003	4.1600e-003	0.0000	236.4406	236.4406	0.0563	0.0000	237.8467
Total	0.0334	0.2279	1.7809	2.7500e-003		4.1600e-003	4.1600e-003		4.1600e-003	4.1600e-003	0.0000	236.4406	236.4406	0.0563	0.0000	237.8467

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3.5 Building Construction - 2023

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0600	1.9654	0.6302	6.7600e-003	0.1748	2.2900e-003	0.1771	0.0504	2.1900e-003	0.0526	0.0000	656.6518	656.6518	0.0358	0.0000	657.5463
Worker	0.4110	0.2965	3.4707	0.0110	1.1870	9.2100e-003	1.1962	0.3153	8.4800e-003	0.3238	0.0000	995.7570	995.7570	0.0256	0.0000	996.3979
Total	0.4710	2.2618	4.1009	0.0178	1.3618	0.0115	1.3733	0.3657	0.0107	0.3764	0.0000	1,652.4087	1,652.4087	0.0614	0.0000	1,653.9441

3.6 Paving - 2023

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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	5.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0187	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304

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3.6 Paving - 2023

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.7000e-004	8.9700e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.5739	2.5739	7.0000e-005	0.0000	2.5755
Total	1.0600e-003	7.7000e-004	8.9700e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.5739	2.5739	7.0000e-005	0.0000	2.5755

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	tons/yr										MT/yr					
Off-Road	4.9100e-003	0.0213	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	5.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.5000e-003	0.0213	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304

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3.6 Paving - 2023

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.7000e-004	8.9700e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.5739	2.5739	7.0000e-005	0.0000	2.5755
Total	1.0600e-003	7.7000e-004	8.9700e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.5739	2.5739	7.0000e-005	0.0000	2.5755

3.7 Architectural Coating - 2023

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					
Archit. Coating	0.4210					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0100e-003	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849
Total	0.4230	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849

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3.7 Architectural Coating - 2023

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4500e-003	6.0900e-003	0.0713	2.3000e-004	0.0244	1.9000e-004	0.0246	6.4800e-003	1.7000e-004	6.6500e-003	0.0000	20.4623	20.4623	5.3000e-004	0.0000	20.4754
Total	8.4500e-003	6.0900e-003	0.0713	2.3000e-004	0.0244	1.9000e-004	0.0246	6.4800e-003	1.7000e-004	6.6500e-003	0.0000	20.4623	20.4623	5.3000e-004	0.0000	20.4754

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	tons/yr										MT/yr					
Archit. Coating	0.4210					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1000e-004	1.3500e-003	0.0192	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849
Total	0.4213	1.3500e-003	0.0192	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849

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3.7 Architectural Coating - 2023

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4500e-003	6.0900e-003	0.0713	2.3000e-004	0.0244	1.9000e-004	0.0246	6.4800e-003	1.7000e-004	6.6500e-003	0.0000	20.4623	20.4623	5.3000e-004	0.0000	20.4754
Total	8.4500e-003	6.0900e-003	0.0713	2.3000e-004	0.0244	1.9000e-004	0.0246	6.4800e-003	1.7000e-004	6.6500e-003	0.0000	20.4623	20.4623	5.3000e-004	0.0000	20.4754

3.7 Architectural Coating - 2024

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					
Archit. Coating	0.2807					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2700e-003	8.5300e-003	0.0127	2.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898
Total	0.2819	8.5300e-003	0.0127	2.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898

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3.7 Architectural Coating - 2024

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3300e-003	3.7000e-003	0.0443	1.5000e-004	0.0163	1.2000e-004	0.0164	4.3200e-003	1.1000e-004	4.4300e-003	0.0000	13.2186	13.2186	3.2000e-004	0.0000	13.2266
Total	5.3300e-003	3.7000e-003	0.0443	1.5000e-004	0.0163	1.2000e-004	0.0164	4.3200e-003	1.1000e-004	4.4300e-003	0.0000	13.2186	13.2186	3.2000e-004	0.0000	13.2266

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	tons/yr										MT/yr					
Archit. Coating	0.2807					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	9.0000e-004	0.0128	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898
Total	0.2809	9.0000e-004	0.0128	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7898

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3.7 Architectural Coating - 2024

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3300e-003	3.7000e-003	0.0443	1.5000e-004	0.0163	1.2000e-004	0.0164	4.3200e-003	1.1000e-004	4.4300e-003	0.0000	13.2186	13.2186	3.2000e-004	0.0000	13.2266
Total	5.3300e-003	3.7000e-003	0.0443	1.5000e-004	0.0163	1.2000e-004	0.0164	4.3200e-003	1.1000e-004	4.4300e-003	0.0000	13.2186	13.2186	3.2000e-004	0.0000	13.2266

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

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	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	2.3300	10.6503	23.8690	0.0880	7.5007	0.0696	7.5703	2.0101	0.0646	2.0747	0.0000	8,162.0937	8,162.0937	0.4124	0.0000	8,172.4036
Unmitigated	2.6538	12.3751	31.6888	0.1240	10.9340	0.0959	11.0299	2.9302	0.0891	3.0193	0.0000	11,488.1093	11,488.1093	0.5526	0.0000	11,501.9232

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	3,791.00	3,680.50	4624.00	13,307,122	9,128,686
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Health Club	375.32	591.80	462.00	895,351	614,210
High Turnover (Sit Down Restaurant)	898.08	720.96	866.08	1,183,217	811,687
Movie Theater (No Matinee)	3,439.15	2,703.80	3278.00	7,016,233	4,813,136
Parking Lot	0.00	0.00	0.00		
Racquet Club	2,032.22	1,334.82	1637.99	3,826,168	2,624,751
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	393.12	414.40	852.60	878,618	602,732
Supermarket	1,464.13	842.89	899.31	1,708,310	1,171,900
Total	12,393.02	10,289.17	12,619.98	28,815,019	19,767,103

4.3 Trip Type Information

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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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse 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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Condo/Townhouse High Rise	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Enclosed Parking with Elevator	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
General Office Building	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Health Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
High Turnover (Sit Down Restaurant)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Movie Theater (No Matinee)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Parking Lot	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Racquet Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Recreational Swimming Pool	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Strip Mall	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Supermarket	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	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	0.0000	1,994.3278	1,994.3278	0.1098	0.0227	2,003.8408
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,869.3403	2,869.3403	0.1580	0.0327	2,883.0271
NaturalGas Mitigated	0.1085	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	1,074.1483	1,074.1483	0.0206	0.0197	1,080.5315
NaturalGas Unmitigated	0.1085	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	1,074.1483	1,074.1483	0.0206	0.0197	1,080.5315

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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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.13867e+007	0.0614	0.5247	0.2233	3.3500e-003		0.0424	0.0424		0.0424	0.0424	0.0000	607.6401	607.6401	0.0117	0.0111	611.2510
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	916080	4.9400e-003	0.0449	0.0377	2.7000e-004		3.4100e-003	3.4100e-003		3.4100e-003	3.4100e-003	0.0000	48.8855	48.8855	9.4000e-004	9.0000e-004	49.1760
Health Club	398200	2.1500e-003	0.0195	0.0164	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.2495	21.2495	4.1000e-004	3.9000e-004	21.3757
High Turnover (Sit Down Restaurant)	3.69216e+006	0.0199	0.1810	0.1520	1.0900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	197.0277	197.0277	3.7800e-003	3.6100e-003	198.1986
Movie Theater (No Matinee)	995500	5.3700e-003	0.0488	0.0410	2.9000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	53.1237	53.1237	1.0200e-003	9.7000e-004	53.4394
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	2.01001e+006	0.0108	0.0985	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.2615	107.2615	2.0600e-003	1.9700e-003	107.8989
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	45920	2.5000e-004	2.2500e-003	1.8900e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4505	2.4505	5.0000e-005	4.0000e-005	2.4650
Supermarket	684170	3.6900e-003	0.0335	0.0282	2.0000e-004		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	36.5099	36.5099	7.0000e-004	6.7000e-004	36.7269
Total		0.1086	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	1,074.1483	1,074.1483	0.0206	0.0197	1,080.5315

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5.2 Energy by Land Use - NaturalGas

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
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.13867e+007	0.0614	0.5247	0.2233	3.3500e-003		0.0424	0.0424		0.0424	0.0424	0.0000	607.6401	607.6401	0.0117	0.0111	611.2510
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	916080	4.9400e-003	0.0449	0.0377	2.7000e-004		3.4100e-003	3.4100e-003		3.4100e-003	3.4100e-003	0.0000	48.8855	48.8855	9.4000e-004	9.0000e-004	49.1760
Health Club	398200	2.1500e-003	0.0195	0.0164	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.2495	21.2495	4.1000e-004	3.9000e-004	21.3757
High Turnover (Sit Down Restaurant)	3.69216e+006	0.0199	0.1810	0.1520	1.0900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	197.0277	197.0277	3.7800e-003	3.6100e-003	198.1986
Movie Theater (No Matinee)	995500	5.3700e-003	0.0488	0.0410	2.9000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	53.1237	53.1237	1.0200e-003	9.7000e-004	53.4394
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	2.01001e+006	0.0108	0.0985	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.2615	107.2615	2.0600e-003	1.9700e-003	107.8989
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	45920	2.5000e-004	2.2500e-003	1.8900e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4505	2.4505	5.0000e-005	4.0000e-005	2.4650
Supermarket	684170	3.6900e-003	0.0335	0.0282	2.0000e-004		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	36.5099	36.5099	7.0000e-004	6.7000e-004	36.7269
Total		0.1086	0.9532	0.5832	5.9200e-003		0.0750	0.0750		0.0750	0.0750	0.0000	1,074.1483	1,074.1483	0.0206	0.0197	1,080.5315

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	3.66166e+006	875.0114	0.0482	9.9700e-003	879.1853
Enclosed Parking with Elevator	2.86671e+006	685.0469	0.0377	7.8000e-003	688.3146
General Office Building	1.14312e+006	273.1669	0.0150	3.1100e-003	274.4699
Health Club	244200	58.3555	3.2100e-003	6.6000e-004	58.6339
High Turnover (Sit Down Restaurant)	706240	168.7674	9.2900e-003	1.9200e-003	169.5724
Movie Theater (No Matinee)	610500	145.8888	8.0300e-003	1.6600e-003	146.5847
Parking Lot	7000	1.6728	9.0000e-005	2.0000e-005	1.6807
Racquet Club	1.23266e+006	294.5627	0.0162	3.3500e-003	295.9678
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	378000	90.3292	4.9700e-003	1.0300e-003	90.7601
Supermarket	1.15723e+006	276.5387	0.0152	3.1500e-003	277.8578
Total		2,869.3403	0.1579	0.0327	2,883.0271

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	-305138	-72.9177	-0.0040	-0.0008	-73.2655
Condo/Townhouse High Rise	3.35652e+006	802.0937	0.0442	9.1300e-003	805.9197
Enclosed Parking with Elevator	2.56157e+006	612.1292	0.0337	6.9700e-003	615.0491
General Office Building	837982	200.2492	0.0110	2.2800e-003	201.2044
Health Club	-60938.3	-14.5622	-0.0008	-0.0002	-14.6317
High Turnover (Sit Down Restaurant)	401102	95.8497	5.2800e-003	1.0900e-003	96.3069
Movie Theater (No Matinee)	305362	72.9711	4.0200e-003	8.3000e-004	73.3192
Parking Lot	-298138	-71.2450	-0.0039	-0.0008	-71.5848
Racquet Club	927517	221.6450	0.0122	2.5200e-003	222.7023
Recreational Swimming Pool	-305138	-72.9177	-0.0040	-0.0008	-73.2655
Strip Mall	72861.7	17.4115	9.6000e-004	2.0000e-004	17.4945
Supermarket	852092	203.6210	0.0112	2.3200e-003	204.5923
Total		1,994.3278	0.1098	0.0227	2,003.8408

6.0 Area Detail

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	4.7104	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063
Unmitigated	4.7104	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063

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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	0.0702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3749					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2654	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063
Total	4.7105	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063

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6.2 Area by SubCategory

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	0.0702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3749					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2654	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063
Total	4.7105	0.1012	8.7833	4.6000e-004		0.0486	0.0486		0.0486	0.0486	0.0000	14.3601	14.3601	0.0139	0.0000	14.7063

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
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	461.4999	2.9986	0.0752	558.8655
Unmitigated	549.4027	3.7468	0.0937	670.9787

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.65954	15.0256	8.3000e-004	1.7000e-004	15.0973
Condo/Townhouse High Rise	55.3809 / 34.9141	282.5856	1.8192	0.0456	341.6623
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	15.6406 / 9.58616	79.0793	0.5137	0.0129	95.7601
Health Club	1.30115 / 0.797479	6.5787	0.0427	1.0700e-003	7.9664
High Turnover (Sit Down Restaurant)	4.85654 / 0.309992	17.4753	0.1591	3.9200e-003	22.6210
Movie Theater (No Matinee)	22.0881 / 1.40988	79.4794	0.7237	0.0178	102.8830
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	6.56785 / 4.02545	33.2073	0.2157	5.4100e-003	40.2120
Recreational Swimming Pool	2.38702 / 1.46301	12.0688	0.0784	1.9700e-003	14.6146
Strip Mall	2.07403 / 1.27118	10.4864	0.0681	1.7100e-003	12.6984
Supermarket	3.82131 / 0.118185	13.4164	0.1252	3.0800e-003	17.4637
Total		549.4027	3.7468	0.0937	670.9787

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.3143	14.1090	7.8000e-004	1.6000e-004	14.1763
Condo/Townhouse High Rise	44.3047 / 32.7843	238.9529	1.4561	0.0367	286.2757
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	12.5125 / 9.0014	66.8010	0.4112	0.0103	80.1626
Health Club	1.04092 / 0.748832	5.5572	0.0342	8.6000e-004	6.6688
High Turnover (Sit Down Restaurant)	3.88523 / 0.291082	14.0946	0.1273	3.1400e-003	18.2118
Movie Theater (No Matinee)	17.6705 / 1.32387	64.1038	0.5790	0.0143	82.8292
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	5.25428 / 3.7799	28.0513	0.1727	4.3400e-003	33.6622
Recreational Swimming Pool	1.90961 / 1.37377	10.1950	0.0628	1.5800e-003	12.2342
Strip Mall	1.65922 / 1.19364	8.8582	0.0545	1.3700e-003	10.6300
Supermarket	3.05705 / 0.110976	10.7767	0.1002	2.4600e-003	14.0148
Total		461.4999	2.9986	0.0752	558.8656

8.0 Waste Detail

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	220.2279	13.0151	0.0000	545.6054
Unmitigated	440.4559	26.0302	0.0000	1,091.2108

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.41	0.0832	4.9200e-003	0.0000	0.2062
Condo/Townhouse High Rise	391	79.3695	4.6906	0.0000	196.6345
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	81.84	16.6128	0.9818	0.0000	41.1575
Health Club	125.4	25.4551	1.5044	0.0000	63.0639
High Turnover (Sit Down Restaurant)	190.4	38.6495	2.2841	0.0000	95.7525
Movie Theater (No Matinee)	313.5	63.6377	3.7609	0.0000	157.6596
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	632.99	128.4913	7.5936	0.0000	318.3316
Recreational Swimming Pool	230.05	46.6981	2.7598	0.0000	115.6925
Strip Mall	29.4	5.9679	0.3527	0.0000	14.7853
Supermarket	174.84	35.4909	2.0975	0.0000	87.9273
Total		440.4559	26.0302	0.0000	1,091.2108

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.205	0.0416	2.4600e-003	0.0000	0.1031
Condo/Townhouse High Rise	195.5	39.6847	2.3453	0.0000	98.3173
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	40.92	8.3064	0.4909	0.0000	20.5787
Health Club	62.7	12.7275	0.7522	0.0000	31.5319
High Turnover (Sit Down Restaurant)	95.2	19.3247	1.1421	0.0000	47.8762
Movie Theater (No Matinee)	156.75	31.8188	1.8804	0.0000	78.8298
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	316.495	64.2456	3.7968	0.0000	159.1658
Recreational Swimming Pool	115.025	23.3490	1.3799	0.0000	57.8463
Strip Mall	14.7	2.9840	0.1764	0.0000	7.3927
Supermarket	87.42	17.7455	1.0487	0.0000	43.9637
Total		220.2279	13.0151	0.0000	545.6054

9.0 Operational Offroad

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Annual

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

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

Commerce Modelo - Mitigated
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	88.00	1000sqft	2.02	88,000.00	0
Enclosed Parking with Elevator	1,223.00	Space	11.01	489,200.00	0
Parking Lot	50.00	Space	0.45	20,000.00	0
City Park	4.75	Acre	4.75	206,910.00	0
Health Club	22.00	1000sqft	0.51	22,000.00	0
High Turnover (Sit Down Restaurant)	16.00	1000sqft	0.37	16,000.00	0
Movie Theater (No Matinee)	55.00	1000sqft	1.26	55,000.00	0
Racquet Club	111.05	1000sqft	2.55	111,050.00	0
Recreational Swimming Pool	40.36	1000sqft	0.93	40,364.16	0
Condo/Townhouse High Rise	850.00	Dwelling Unit	3.49	850,000.00	2431
Strip Mall	28.00	1000sqft	0.64	28,000.00	0
Supermarket	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	526.83	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with RPS goal of 40% by 2024.

Land Use - Based on applicant provided information. Total acreage is larger than the actual site due to parking being underground.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition -

Grading - Based on applicant provided information.

Architectural Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Vehicle Trips -

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403. Tier 4 Final construction equipment.

Mobile Land Use Mitigation -

Area Mitigation - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

Energy Mitigation - Solar for residential in accordance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Parking	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	260.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	45.00	100.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	722.50	0.00
tblFireplaces	NumberNoFireplace	85.00	0.00
tblFireplaces	NumberWood	42.50	0.00
tblGrading	AcresOfGrading	0.00	250.00
tblGrading	MaterialImported	0.00	85,000.00
tblLandUse	LandUseSquareFeet	40,360.00	40,364.16
tblLandUse	LotAcreage	13.28	3.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	526.83
tblTripsAndVMT	HaulingTripNumber	0.00	49,440.00
tblTripsAndVMT	HaulingTripNumber	10,625.00	10,626.00
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	18.00
tblTripsAndVMT	WorkerTripNumber	53.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	4.33
tblVehicleTrips	ST_TR	2.46	0.00

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

tblVehicleTrips	ST_TR	20.87	26.90
tblVehicleTrips	ST_TR	158.37	45.06
tblVehicleTrips	ST_TR	99.28	49.16
tblVehicleTrips	ST_TR	21.35	12.02
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	14.80
tblVehicleTrips	ST_TR	177.59	27.19
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	5.44
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	21.00
tblVehicleTrips	SU_TR	131.84	54.13
tblVehicleTrips	SU_TR	81.90	59.60
tblVehicleTrips	SU_TR	17.40	14.75
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	30.45
tblVehicleTrips	SU_TR	166.44	29.01
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	4.46
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	17.06
tblVehicleTrips	WD_TR	127.15	56.13
tblVehicleTrips	WD_TR	78.06	62.53
tblVehicleTrips	WD_TR	14.03	18.30
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	44.32	14.04
tblVehicleTrips	WD_TR	102.24	47.23

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

tblWoodstoves	NumberCatalytic	42.50	0.00
tblWoodstoves	NumberNoncatalytic	42.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2020	9.7651	130.7884	69.1371	0.2638	4.7247	3.8380	8.5627	1.2585	3.6479	4.9064	0.0000	27,144.5214	27,144.5214	3.5192	0.0000	27,232.5007
2021	9.1673	121.0617	68.5092	0.2619	17.3167	3.4580	20.7061	7.5988	3.2829	10.8160	0.0000	26,960.7290	26,960.7290	3.4830	0.0000	27,047.8045
2022	7.4973	85.4219	62.3597	0.2133	21.3220	2.7984	24.1203	8.5819	2.6613	11.2432	0.0000	21,634.2746	21,634.2746	2.9791	0.0000	21,668.2576
2023	41.0858	35.9975	58.4863	0.2067	13.6121	0.8120	14.4241	3.6496	0.7626	4.4121	0.0000	20,974.5707	20,974.5707	1.2751	0.0000	21,006.4488
2024	41.0317	1.6843	8.5734	0.0248	2.3697	0.0787	2.4483	0.6285	0.0773	0.7057	0.0000	2,455.8860	2,455.8860	0.0690	0.0000	2,457.6116
Maximum	41.0858	130.7884	69.1371	0.2638	21.3220	3.8380	24.1203	8.5819	3.6479	11.2432	0.0000	27,144.5214	27,144.5214	3.5192	0.0000	27,232.5007

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	16.5863	70.4224	190.1812	0.7465	64.6928	0.5575	65.2503	17.3091	0.5177	17.8268		76,205.8472	76,205.8472	3.5561		76,294.7504
Total	43.6607	76.4546	263.6437	0.7826	64.6928	1.3575	66.0503	17.3091	1.3178	18.6269	0.0000	82,820.4045	82,820.4045	3.8026	0.1190	82,950.9148

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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	14.6799	61.1940	141.4638	0.5303	44.3793	0.4044	44.7837	11.8740	0.3755	12.2495		54,192.7767	54,192.7767	2.6432		54,258.8572
Total	41.7543	67.2263	214.9263	0.5665	44.3793	1.2044	45.5837	11.8740	1.1755	13.0495	0.0000	60,807.3340	60,807.3340	2.8897	0.1190	60,915.0216

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

	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	4.37	12.07	18.48	27.62	31.40	11.28	30.99	31.40	10.80	29.94	0.00	26.58	26.58	24.01	0.00	26.56

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	5/1/2020	4/29/2021	5	260	
2	Site Preparation	Site Preparation	4/30/2021	9/16/2021	5	100	
3	Grading	Grading	9/17/2021	2/3/2022	5	100	
4	Building Construction	Building Construction	2/4/2022	10/12/2023	5	440	
5	Paving	Paving	10/13/2023	11/30/2023	5	35	
6	Architectural Coating	Architectural Coating	12/1/2023	1/18/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 250

Acres of Paving: 11.46

Residential Indoor: 1,721,250; Residential Outdoor: 573,750; Non-Residential Indoor: 526,575; Non-Residential Outdoor: 175,525; Striped Parking Area: 30,552 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	3	8.00	85	0.78
Demolition	Dumpers/Tenders	4	8.00	16	0.38
Demolition	Excavators	5	8.00	158	0.38

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

Demolition	Generator Sets	3	8.00	84	0.74
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Crushing/Proc. Equipment	3	8.00	85	0.78
Site Preparation	Dumpers/Tenders	4	8.00	16	0.38
Site Preparation	Excavators	5	8.00	158	0.38
Site Preparation	Generator Sets	3	8.00	84	0.74
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crushing/Proc. Equipment	3	8.00	85	0.78
Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	5	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Loaders	4	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	21	16.00	0.00	49,440.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	21	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	21	20.00	0.00	10,626.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,062.00	272.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	212.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	8.0305	76.0591	56.3206	0.1117		3.6620	3.6620		3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	8.0305	76.0591	56.3206	0.1117	0.0000	3.6620	3.6620	0.0000	3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	1.6610	54.6770	12.1159	0.1502	4.5459	0.1745	4.7204	1.2111	0.1670	1.3780		16,273.97 12	16,273.97 12	1.1077		16,301.66 39
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0736	0.0524	0.7006	1.8900e- 003	0.1788	1.4900e- 003	0.1803	0.0474	1.3800e- 003	0.0488		188.1781	188.1781	5.9300e- 003		188.3264
Total	1.7346	54.7294	12.8165	0.1521	4.7247	0.1760	4.9007	1.2585	0.1683	1.4269		16,462.14 92	16,462.14 92	1.1136		16,489.99 03

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2439	5.3904	63.7483	0.1117		0.1659	0.1659		0.1659	0.1659	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	1.2439	5.3904	63.7483	0.1117	0.0000	0.1659	0.1659	0.0000	0.1659	0.1659	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	1.6610	54.6770	12.1159	0.1502	4.5459	0.1745	4.7204	1.2111	0.1670	1.3780		16,273.97 12	16,273.97 12	1.1077		16,301.66 39
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0736	0.0524	0.7006	1.8900e- 003	0.1788	1.4900e- 003	0.1803	0.0474	1.3800e- 003	0.0488		188.1781	188.1781	5.9300e- 003		188.3264
Total	1.7346	54.7294	12.8165	0.1521	4.7247	0.1760	4.9007	1.2585	0.1683	1.4269		16,462.14 92	16,462.14 92	1.1136		16,489.99 03

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.2 Demolition - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	0.0000	3.3000	3.3000	0.0000	3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	1.5855	51.0075	11.9598	0.1484	8.5009	0.1566	8.6575	2.1819	0.1498	2.3317		16,095.50 14	16,095.50 14	1.0923		16,122.80 88
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	1.6541	51.0547	12.6043	0.1502	8.6797	0.1580	8.8377	2.2293	0.1511	2.3804		16,277.70 46	16,277.70 46	1.0977		16,305.14 62

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.2 Demolition - 2021

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2439	5.3904	63.7483	0.1117		0.1659	0.1659		0.1659	0.1659	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	1.2439	5.3904	63.7483	0.1117	0.0000	0.1659	0.1659	0.0000	0.1659	0.1659	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	1.5855	51.0075	11.9598	0.1484	8.5009	0.1566	8.6575	2.1819	0.1498	2.3317		16,095.50 14	16,095.50 14	1.0923		16,122.80 88
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	1.6541	51.0547	12.6043	0.1502	8.6797	0.1580	8.8377	2.2293	0.1511	2.3804		16,277.70 46	16,277.70 46	1.0977		16,305.14 62

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.3 Site Preparation - 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					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	12.0442	3.3000	15.3442	6.6205	3.1318	9.7523		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.3 Site Preparation - 2021

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					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	1.2439	5.3904	63.7483	0.1117		0.1659	0.1659		0.1659	0.1659	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	1.2439	5.3904	63.7483	0.1117	4.6972	0.1659	4.8631	2.5820	0.1659	2.7478	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.4 Grading - 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					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	14.7916	3.3000	18.0916	6.9213	3.1318	10.0531		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.8860	28.5036	6.6833	0.0829	2.3016	0.0875	2.3891	0.6182	0.0837	0.7019		8,994.338 1	8,994.338 1	0.6104		9,009.597 8
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	0.9717	28.5625	7.4888	0.0852	2.5252	0.0893	2.6145	0.6775	0.0854	0.7629		9,222.092 0	9,222.092 0	0.6171		9,237.519 5

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.4 Grading - 2021

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	1.2439	5.3904	63.7483	0.1117		0.1659	0.1659		0.1659	0.1659	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	1.2439	5.3904	63.7483	0.1117	5.7687	0.1659	5.9346	2.6993	0.1659	2.8652	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.8860	28.5036	6.6833	0.0829	2.3016	0.0875	2.3891	0.6182	0.0837	0.7019		8,994.338 1	8,994.338 1	0.6104		9,009.597 8
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	0.9717	28.5625	7.4888	0.0852	2.5252	0.0893	2.6145	0.6775	0.0854	0.7629		9,222.092 0	9,222.092 0	0.6171		9,237.519 5

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.4 Grading - 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					
Fugitive Dust					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	6.5739	58.8901	54.5893	0.1117		2.7206	2.7206		2.5870	2.5870		10,683.2596	10,683.2596	2.3718		10,742.5555
Total	6.5739	58.8901	54.5893	0.1117	14.7916	2.7206	17.5122	6.9213	2.5870	9.5083		10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.8432	26.4786	6.6153	0.0818	6.3069	0.0760	6.3829	1.6013	0.0727	1.6740		8,887.9579	8,887.9579	0.6012		8,902.9888
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	0.9235	26.5318	7.3585	0.0840	6.5304	0.0778	6.6082	1.6606	0.0743	1.7349		9,107.7004	9,107.7004	0.6073		9,122.8829

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.4 Grading - 2022

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	1.2439	5.3904	63.7483	0.1117		0.1659	0.1659		0.1659	0.1659	0.0000	10,683.2596	10,683.2596	2.3718		10,742.5555
Total	1.2439	5.3904	63.7483	0.1117	5.7687	0.1659	5.9346	2.6993	0.1659	2.8652	0.0000	10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.8432	26.4786	6.6153	0.0818	6.3069	0.0760	6.3829	1.6013	0.0727	1.6740		8,887.9579	8,887.9579	0.6012		8,902.9888
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	0.9235	26.5318	7.3585	0.0840	6.5304	0.0778	6.6082	1.6606	0.0743	1.7349		9,107.7004	9,107.7004	0.6073		9,122.8829

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.5 Building 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.7760	25.1138	6.5321	0.0693	1.7414	0.0472	1.7886	0.5014	0.0452	0.5465		7,411.6162	7,411.6162	0.4253		7,422.2493
Worker	4.2642	2.8264	39.4642	0.1171	11.8707	0.0929	11.9636	3.1482	0.0856	3.2337		11,668.3248	11,668.3248	0.3221		11,676.3761
Total	5.0401	27.9403	45.9963	0.1864	13.6121	0.1401	13.7522	3.6495	0.1307	3.7803		19,079.9410	19,079.9410	0.7474		19,098.6253

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2022

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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.7760	25.1138	6.5321	0.0693	1.7414	0.0472	1.7886	0.5014	0.0452	0.5465		7,411.6162	7,411.6162	0.4253		7,422.2493
Worker	4.2642	2.8264	39.4642	0.1171	11.8707	0.0929	11.9636	3.1482	0.0856	3.2337		11,668.3248	11,668.3248	0.3221		11,676.3761
Total	5.0401	27.9403	45.9963	0.1864	13.6121	0.1401	13.7522	3.6495	0.1307	3.7803		19,079.9410	19,079.9410	0.7474		19,098.6253

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.5757	19.0554	5.8992	0.0670	1.7415	0.0220	1.7635	0.5014	0.0210	0.5224		7,178.2820	7,178.2820	0.3769		7,187.7047
Worker	4.0044	2.5572	36.3431	0.1128	11.8707	0.0903	11.9609	3.1482	0.0831	3.2313		11,241.0788	11,241.0788	0.2904		11,248.3380
Total	4.5801	21.6126	42.2423	0.1798	13.6121	0.1123	13.7244	3.6496	0.1042	3.7537		18,419.3608	18,419.3608	0.6673		18,436.0427

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2023

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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.5757	19.0554	5.8992	0.0670	1.7415	0.0220	1.7635	0.5014	0.0210	0.5224		7,178.2820	7,178.2820	0.3769		7,187.7047
Worker	4.0044	2.5572	36.3431	0.1128	11.8707	0.0903	11.9609	3.1482	0.0831	3.2313		11,241.0788	11,241.0788	0.2904		11,248.3380
Total	4.5801	21.6126	42.2423	0.1798	13.6121	0.1123	13.7244	3.6496	0.1042	3.7537		18,419.3608	18,419.3608	0.6673		18,436.0427

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0664	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665
Total	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.6 Paving - 2023

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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3142	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665
Total	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	40.2864	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7994	0.5105	7.2549	0.0225	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,243.9818	2,243.9818	0.0580		2,245.4309
Total	0.7994	0.5105	7.2549	0.0225	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,243.9818	2,243.9818	0.0580		2,245.4309

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
Total	40.1245	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7994	0.5105	7.2549	0.0225	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,243.9818	2,243.9818	0.0580		2,245.4309
Total	0.7994	0.5105	7.2549	0.0225	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,243.9818	2,243.9818	0.0580		2,245.4309

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	40.2755	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7562	0.4655	6.7633	0.0218	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,174.4379	2,174.4379	0.0532		2,175.7674
Total	0.7562	0.4655	6.7633	0.0218	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,174.4379	2,174.4379	0.0532		2,175.7674

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	40.1245	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7562	0.4655	6.7633	0.0218	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,174.4379	2,174.4379	0.0532		2,175.7674
Total	0.7562	0.4655	6.7633	0.0218	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,174.4379	2,174.4379	0.0532		2,175.7674

4.0 Operational Detail - Mobile

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	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	14.6799	61.1940	141.4638	0.5303	44.3793	0.4044	44.7837	11.8740	0.3755	12.2495		54,192.77 67	54,192.77 67	2.6432		54,258.85 72
Unmitigated	16.5863	70.4224	190.1812	0.7465	64.6928	0.5575	65.2503	17.3091	0.5177	17.8268		76,205.84 72	76,205.84 72	3.5561		76,294.75 04

4.2 Trip Summary Information

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	3,791.00	3,680.50	4624.00	13,307,122	9,128,686
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Health Club	375.32	591.80	462.00	895,351	614,210
High Turnover (Sit Down Restaurant)	898.08	720.96	866.08	1,183,217	811,687
Movie Theater (No Matinee)	3,439.15	2,703.80	3278.00	7,016,233	4,813,136
Parking Lot	0.00	0.00	0.00		
Racquet Club	2,032.22	1,334.82	1637.99	3,826,168	2,624,751
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	393.12	414.40	852.60	878,618	602,732
Supermarket	1,464.13	842.89	899.31	1,708,310	1,171,900
Total	12,393.02	10,289.17	12,619.98	28,815,019	19,767,103

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse 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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Condo/Townhouse High Rise	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Enclosed Parking with Elevator	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
General Office Building	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Health Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
High Turnover (Sit Down Restaurant)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Movie Theater (No Matinee)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Parking Lot	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Racquet Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Recreational Swimming Pool	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Strip Mall	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Supermarket	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

	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					
NaturalGas Mitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
NaturalGas Unmitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31196.6	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2509.81	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1090.96	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10115.5	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2727.4	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5506.86	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	125.808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1874.44	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

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
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31.1966	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.50981	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1.09096	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10.1155	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2.7274	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5.50686	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.125808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1.87444	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

6.0 Area Detail

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Unmitigated	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1234	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891		126.6348	126.6348	0.1221		129.6875
Total	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1234	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891		126.6348	126.6348	0.1221		129.6875
Total	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

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
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Summer

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

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

Commerce Modelo - Mitigated
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	88.00	1000sqft	2.02	88,000.00	0
Enclosed Parking with Elevator	1,223.00	Space	11.01	489,200.00	0
Parking Lot	50.00	Space	0.45	20,000.00	0
City Park	4.75	Acre	4.75	206,910.00	0
Health Club	22.00	1000sqft	0.51	22,000.00	0
High Turnover (Sit Down Restaurant)	16.00	1000sqft	0.37	16,000.00	0
Movie Theater (No Matinee)	55.00	1000sqft	1.26	55,000.00	0
Racquet Club	111.05	1000sqft	2.55	111,050.00	0
Recreational Swimming Pool	40.36	1000sqft	0.93	40,364.16	0
Condo/Townhouse High Rise	850.00	Dwelling Unit	3.49	850,000.00	2431
Strip Mall	28.00	1000sqft	0.64	28,000.00	0
Supermarket	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	526.83	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with RPS goal of 40% by 2024.

Land Use - Based on applicant provided information. Total acreage is larger than the actual site due to parking being underground.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition -

Grading - Based on applicant provided information.

Architectural Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Vehicle Trips -

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403. Tier 4 Final construction equipment.

Mobile Land Use Mitigation -

Area Mitigation - Project will use super compliant architectural coatings in accordance with SCAQMD Rule 1113.

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

Energy Mitigation - Solar for residential in accordance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10
tblAreaCoating	Area_EF_Parking	100	10
tblAreaCoating	Area_EF_Residential_Exterior	50	10
tblAreaCoating	Area_EF_Residential_Interior	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	260.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	45.00	100.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	722.50	0.00
tblFireplaces	NumberNoFireplace	85.00	0.00
tblFireplaces	NumberWood	42.50	0.00
tblGrading	AcresOfGrading	0.00	250.00
tblGrading	MaterialImported	0.00	85,000.00
tblLandUse	LandUseSquareFeet	40,360.00	40,364.16
tblLandUse	LotAcreage	13.28	3.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	526.83
tblTripsAndVMT	HaulingTripNumber	0.00	49,440.00
tblTripsAndVMT	HaulingTripNumber	10,625.00	10,626.00
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	18.00
tblTripsAndVMT	WorkerTripNumber	53.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	4.33
tblVehicleTrips	ST_TR	2.46	0.00

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

tblVehicleTrips	ST_TR	20.87	26.90
tblVehicleTrips	ST_TR	158.37	45.06
tblVehicleTrips	ST_TR	99.28	49.16
tblVehicleTrips	ST_TR	21.35	12.02
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	14.80
tblVehicleTrips	ST_TR	177.59	27.19
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	5.44
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	21.00
tblVehicleTrips	SU_TR	131.84	54.13
tblVehicleTrips	SU_TR	81.90	59.60
tblVehicleTrips	SU_TR	17.40	14.75
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	30.45
tblVehicleTrips	SU_TR	166.44	29.01
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	4.46
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	17.06
tblVehicleTrips	WD_TR	127.15	56.13
tblVehicleTrips	WD_TR	78.06	62.53
tblVehicleTrips	WD_TR	14.03	18.30
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	44.32	14.04
tblVehicleTrips	WD_TR	102.24	47.23

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

tblWoodstoves	NumberCatalytic	42.50	0.00
tblWoodstoves	NumberNoncatalytic	42.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2020	9.8136	131.5018	69.8386	0.2611	4.7247	3.8406	8.5653	1.2585	3.6505	4.9090	0.0000	26,853.2866	26,853.2866	3.5591	0.0000	26,942.2641
2021	9.2131	121.6916	69.1761	0.2592	17.3167	3.4604	20.7074	7.5988	3.2852	10.8172	0.0000	26,671.2602	26,671.2602	3.5212	0.0000	26,759.2904
2022	7.5270	85.7299	62.2678	0.2046	21.3220	2.7996	24.1215	8.5819	2.6625	11.2443	0.0000	20,748.6528	20,748.6528	2.9993	0.0000	20,782.8384
2023	41.1809	36.1829	55.7772	0.1983	13.6121	0.8132	14.4253	3.6496	0.7637	4.4132	0.0000	20,123.7460	20,123.7460	1.2790	0.0000	20,155.7211
2024	41.1243	1.7337	7.9633	0.0235	2.3697	0.0787	2.4483	0.6285	0.0773	0.7057	0.0000	2,328.9521	2,328.9521	0.0657	0.0000	2,330.5939
Maximum	41.1809	131.5018	69.8386	0.2611	21.3220	3.8406	24.1215	8.5819	3.6505	11.2443	0.0000	26,853.2866	26,853.2866	3.5591	0.0000	26,942.2641

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	16.0368	71.4757	182.6329	0.7100	64.6928	0.5603	65.2531	17.3091	0.5205	17.8296		72,511.0671	72,511.0671	3.5735		72,600.4037
Total	43.1111	77.5080	256.0954	0.7461	64.6928	1.3603	66.0531	17.3091	1.3205	18.6296	0.0000	79,125.6243	79,125.6243	3.8199	0.1190	79,256.5681

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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Energy	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
Mobile	14.1714	61.6766	138.4361	0.5036	44.3793	0.4072	44.7865	11.8740	0.3782	12.2522		51,474.0960	51,474.0960	2.6813		51,541.1296
Total	41.2458	67.7088	211.8986	0.5398	44.3793	1.2073	45.5865	11.8740	1.1782	13.0522	0.0000	58,088.6533	58,088.6533	2.9278	0.1190	58,197.2940

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

	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	4.33	12.64	17.26	27.66	31.40	11.25	30.99	31.40	10.78	29.94	0.00	26.59	26.59	23.35	0.00	26.57

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	5/1/2020	4/29/2021	5	260	
2	Site Preparation	Site Preparation	4/30/2021	9/16/2021	5	100	
3	Grading	Grading	9/17/2021	2/3/2022	5	100	
4	Building Construction	Building Construction	2/4/2022	10/12/2023	5	440	
5	Paving	Paving	10/13/2023	11/30/2023	5	35	
6	Architectural Coating	Architectural Coating	12/1/2023	1/18/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 250

Acres of Paving: 11.46

Residential Indoor: 1,721,250; Residential Outdoor: 573,750; Non-Residential Indoor: 526,575; Non-Residential Outdoor: 175,525; Striped Parking Area: 30,552 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	3	8.00	85	0.78
Demolition	Dumpers/Tenders	4	8.00	16	0.38
Demolition	Excavators	5	8.00	158	0.38

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

Demolition	Generator Sets	3	8.00	84	0.74
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Crushing/Proc. Equipment	3	8.00	85	0.78
Site Preparation	Dumpers/Tenders	4	8.00	16	0.38
Site Preparation	Excavators	5	8.00	158	0.38
Site Preparation	Generator Sets	3	8.00	84	0.74
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	4	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crushing/Proc. Equipment	3	8.00	85	0.78
Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	5	8.00	158	0.38
Grading	Generator Sets	3	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Loaders	4	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	21	16.00	0.00	49,440.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	21	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	21	20.00	0.00	10,626.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,062.00	272.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	212.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	8.0305	76.0591	56.3206	0.1117		3.6620	3.6620		3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	8.0305	76.0591	56.3206	0.1117	0.0000	3.6620	3.6620	0.0000	3.4796	3.4796		10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	1.7013	55.3847	12.8763	0.1476	4.5459	0.1772	4.7230	1.2111	0.1695	1.3806		15,993.72 72	15,993.72 72	1.1480		16,022.42 68
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0818	0.0580	0.6416	1.7800e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		177.1873	177.1873	5.5800e-003		177.3269
Total	1.7831	55.4427	13.5180	0.1494	4.7247	0.1787	4.9034	1.2585	0.1709	1.4294		16,170.91 45	16,170.91 45	1.1536		16,199.75 37

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2439	5.3904	63.7483	0.1117		0.1659	0.1659		0.1659	0.1659	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04
Total	1.2439	5.3904	63.7483	0.1117	0.0000	0.1659	0.1659	0.0000	0.1659	0.1659	0.0000	10,682.37 21	10,682.37 21	2.4055		10,742.51 04

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	1.7013	55.3847	12.8763	0.1476	4.5459	0.1772	4.7230	1.2111	0.1695	1.3806		15,993.72 72	15,993.72 72	1.1480		16,022.42 68
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0818	0.0580	0.6416	1.7800e- 003	0.1788	1.4900e- 003	0.1803	0.0474	1.3800e- 003	0.0488		177.1873	177.1873	5.5800e- 003		177.3269
Total	1.7831	55.4427	13.5180	0.1494	4.7247	0.1787	4.9034	1.2585	0.1709	1.4294		16,170.91 45	16,170.91 45	1.1536		16,199.75 37

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.2 Demolition - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	0.0000	3.3000	3.3000	0.0000	3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	1.6237	51.6324	12.6820	0.1458	8.5009	0.1589	8.6598	2.1819	0.1521	2.3339		15,816.67 55	15,816.67 55	1.1308		15,844.94 57
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	1.6999	51.6846	13.2712	0.1475	8.6797	0.1604	8.8401	2.2293	0.1534	2.3827		15,988.23 57	15,988.23 57	1.1359		16,016.63 21

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2439	5.3904	63.7483	0.1117		0.1659	0.1659		0.1659	0.1659	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	1.2439	5.3904	63.7483	0.1117	0.0000	0.1659	0.1659	0.0000	0.1659	0.1659	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	1.6237	51.6324	12.6820	0.1458	8.5009	0.1589	8.6598	2.1819	0.1521	2.3339		15,816.67 55	15,816.67 55	1.1308		15,844.94 57
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	1.6999	51.6846	13.2712	0.1475	8.6797	0.1604	8.8401	2.2293	0.1534	2.3827		15,988.23 57	15,988.23 57	1.1359		16,016.63 21

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 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					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	12.0442	3.3000	15.3442	6.6205	3.1318	9.7523		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.3 Site Preparation - 2021

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					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	1.2439	5.3904	63.7483	0.1117		0.1659	0.1659		0.1659	0.1659	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	1.2439	5.3904	63.7483	0.1117	4.6972	0.1659	4.8631	2.5820	0.1659	2.7478	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.4 Grading - 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					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	7.5132	70.0071	55.9049	0.1117		3.3000	3.3000		3.1318	3.1318		10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	7.5132	70.0071	55.9049	0.1117	14.7916	3.3000	18.0916	6.9213	3.1318	10.0531		10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.9073	28.8527	7.0868	0.0815	2.3016	0.0888	2.3905	0.6182	0.0850	0.7032		8,838.527 2	8,838.527 2	0.6319		8,854.324 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	1.0027	28.9180	7.8233	0.0836	2.5252	0.0906	2.6158	0.6775	0.0866	0.7641		9,052.977 4	9,052.977 4	0.6382		9,068.932 9

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.4 Grading - 2021

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	1.2439	5.3904	63.7483	0.1117		0.1659	0.1659		0.1659	0.1659	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83
Total	1.2439	5.3904	63.7483	0.1117	5.7687	0.1659	5.9346	2.6993	0.1659	2.8652	0.0000	10,683.02 45	10,683.02 45	2.3854		10,742.65 83

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	0.9073	28.8527	7.0868	0.0815	2.3016	0.0888	2.3905	0.6182	0.0850	0.7032		8,838.527 2	8,838.527 2	0.6319		8,854.324 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	1.0027	28.9180	7.8233	0.0836	2.5252	0.0906	2.6158	0.6775	0.0866	0.7641		9,052.977 4	9,052.977 4	0.6382		9,068.932 9

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.4 Grading - 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					
Fugitive Dust					14.7916	0.0000	14.7916	6.9213	0.0000	6.9213			0.0000			0.0000
Off-Road	6.5739	58.8901	54.5893	0.1117		2.7206	2.7206		2.5870	2.5870		10,683.2596	10,683.2596	2.3718		10,742.5555
Total	6.5739	58.8901	54.5893	0.1117	14.7916	2.7206	17.5122	6.9213	2.5870	9.5083		10,683.2596	10,683.2596	2.3718		10,742.5555

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	0.8635	26.7810	7.0002	0.0804	6.3069	0.0772	6.3841	1.6013	0.0739	1.6752		8,732.6246	8,732.6246	0.6217		8,748.1682
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	0.9531	26.8399	7.6785	0.0825	6.5304	0.0790	6.6094	1.6606	0.0755	1.7361		8,939.5385	8,939.5385	0.6274		8,955.2245

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.4 Grading - 2022

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					5.7687	0.0000	5.7687	2.6993	0.0000	2.6993			0.0000			0.0000
Off-Road	1.2439	5.3904	63.7483	0.1117		0.1659	0.1659		0.1659	0.1659	0.0000	10,683.25 96	10,683.25 96	2.3718		10,742.55 55
Total	1.2439	5.3904	63.7483	0.1117	5.7687	0.1659	5.9346	2.6993	0.1659	2.8652	0.0000	10,683.25 96	10,683.25 96	2.3718		10,742.55 55

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	0.8635	26.7810	7.0002	0.0804	6.3069	0.0772	6.3841	1.6013	0.0739	1.6752		8,732.624 6	8,732.624 6	0.6217		8,748.168 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	0.9531	26.8399	7.6785	0.0825	6.5304	0.0790	6.6094	1.6606	0.0755	1.7361		8,939.538 5	8,939.538 5	0.6274		8,955.224 5

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.5 Building 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.8148	25.0456	7.2289	0.0674	1.7414	0.0488	1.7902	0.5014	0.0466	0.5480		7,207.1916	7,207.1916	0.4530		7,218.5154
Worker	4.7561	3.1280	36.0205	0.1103	11.8707	0.0929	11.9636	3.1482	0.0856	3.2337		10,987.1276	10,987.1276	0.3025		10,994.6908
Total	5.5709	28.1736	43.2495	0.1776	13.6121	0.1417	13.7538	3.6495	0.1322	3.7818		18,194.3192	18,194.3192	0.7555		18,213.2062

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2022

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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0000	0.0000		0.0000
Vendor	0.8148	25.0456	7.2289	0.0674	1.7414	0.0488	1.7902	0.5014	0.0466	0.5480		7,207.1916	7,207.1916	0.4530		7,218.5154
Worker	4.7561	3.1280	36.0205	0.1103	11.8707	0.0929	11.9636	3.1482	0.0856	3.2337		10,987.1276	10,987.1276	0.3025		10,994.6908
Total	5.5709	28.1736	43.2495	0.1776	13.6121	0.1417	13.7538	3.6495	0.1322	3.7818		18,194.3192	18,194.3192	0.7555		18,213.2062

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.6054	18.9689	6.4236	0.0652	1.7415	0.0232	1.7646	0.5014	0.0221	0.5235		6,983.3636	6,983.3636	0.3988		6,993.3324
Worker	4.4807	2.8291	33.1096	0.1062	11.8707	0.0903	11.9609	3.1482	0.0831	3.2313		10,585.1725	10,585.1725	0.2724		10,591.9827
Total	5.0861	21.7981	39.5332	0.1714	13.6121	0.1134	13.7255	3.6496	0.1053	3.7548		17,568.5361	17,568.5361	0.6712		17,585.3150

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2023

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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0000	0.0000		0.0000
Vendor	0.6054	18.9689	6.4236	0.0652	1.7415	0.0232	1.7646	0.5014	0.0221	0.5235		6,983.3636	6,983.3636	0.3988		6,993.3324
Worker	4.4807	2.8291	33.1096	0.1062	11.8707	0.0903	11.9609	3.1482	0.0831	3.2313		10,585.1725	10,585.1725	0.2724		10,591.9827
Total	5.0861	21.7981	39.5332	0.1714	13.6121	0.1134	13.7255	3.6496	0.1053	3.7548		17,568.5361	17,568.5361	0.6712		17,585.3150

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0664	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779
Total	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.6 Paving - 2023

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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3142	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779
Total	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	40.2864	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8945	0.5648	6.6095	0.0212	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,113.0476	2,113.0476	0.0544		2,114.4071
Total	0.8945	0.5648	6.6095	0.0212	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,113.0476	2,113.0476	0.0544		2,114.4071

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2023

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
Total	40.1245	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8945	0.5648	6.6095	0.0212	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,113.0476	2,113.0476	0.0544		2,114.4071
Total	0.8945	0.5648	6.6095	0.0212	2.3697	0.0180	2.3877	0.6285	0.0166	0.6450		2,113.0476	2,113.0476	0.0544		2,114.4071

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	40.2755	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8488	0.5149	6.1531	0.0205	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,047.5040	2,047.5040	0.0498		2,048.7497
Total	0.8488	0.5149	6.1531	0.0205	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,047.5040	2,047.5040	0.0498		2,048.7497

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2024

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	40.0948					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	40.1245	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8488	0.5149	6.1531	0.0205	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,047.5040	2,047.5040	0.0498		2,048.7497
Total	0.8488	0.5149	6.1531	0.0205	2.3697	0.0178	2.3874	0.6285	0.0164	0.6448		2,047.5040	2,047.5040	0.0498		2,048.7497

4.0 Operational Detail - Mobile

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	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	14.1714	61.6766	138.4361	0.5036	44.3793	0.4072	44.7865	11.8740	0.3782	12.2522		51,474.09 60	51,474.09 60	2.6813		51,541.12 96
Unmitigated	16.0368	71.4757	182.6329	0.7100	64.6928	0.5603	65.2531	17.3091	0.5205	17.8296		72,511.067 1	72,511.067 1	3.5735		72,600.40 37

4.2 Trip Summary Information

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	3,791.00	3,680.50	4624.00	13,307,122	9,128,686
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Health Club	375.32	591.80	462.00	895,351	614,210
High Turnover (Sit Down Restaurant)	898.08	720.96	866.08	1,183,217	811,687
Movie Theater (No Matinee)	3,439.15	2,703.80	3278.00	7,016,233	4,813,136
Parking Lot	0.00	0.00	0.00		
Racquet Club	2,032.22	1,334.82	1637.99	3,826,168	2,624,751
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	393.12	414.40	852.60	878,618	602,732
Supermarket	1,464.13	842.89	899.31	1,708,310	1,171,900
Total	12,393.02	10,289.17	12,619.98	28,815,019	19,767,103

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse 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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Racquet Club	16.60	8.40	6.90	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Condo/Townhouse High Rise	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Enclosed Parking with Elevator	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
General Office Building	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Health Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
High Turnover (Sit Down Restaurant)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Movie Theater (No Matinee)	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Parking Lot	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Racquet Club	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Recreational Swimming Pool	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Strip Mall	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Supermarket	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

	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					
NaturalGas Mitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770
NaturalGas Unmitigated	0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1190	6,526.4770

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31196.6	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2509.81	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1090.96	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10115.5	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2727.4	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5506.86	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	125.808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1874.44	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

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
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	31.1966	0.3364	2.8750	1.2234	0.0184		0.2324	0.2324		0.2324	0.2324		3,670.1836	3,670.1836	0.0704	0.0673	3,691.9936
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.50981	0.0271	0.2461	0.2067	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.2716	295.2716	5.6600e-003	5.4100e-003	297.0262
Health Club	1.09096	0.0118	0.1070	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003		128.3481	128.3481	2.4600e-003	2.3500e-003	129.1108
High Turnover (Sit Down Restaurant)	10.1155	0.1091	0.9917	0.8330	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0596	1,190.0596	0.0228	0.0218	1,197.1316
Movie Theater (No Matinee)	2.7274	0.0294	0.2674	0.2246	1.6000e-003		0.0203	0.0203		0.0203	0.0203		320.8703	320.8703	6.1500e-003	5.8800e-003	322.7770
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	5.50686	0.0594	0.5399	0.4535	3.2400e-003		0.0410	0.0410		0.0410	0.0410		647.8662	647.8662	0.0124	0.0119	651.7162
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.125808	1.3600e-003	0.0123	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8010	14.8010	2.8000e-004	2.7000e-004	14.8889
Supermarket	1.87444	0.0202	0.1838	0.1544	1.1000e-003		0.0140	0.0140		0.0140	0.0140		220.5222	220.5222	4.2300e-003	4.0400e-003	221.8326
Total		0.5947	5.2231	3.1958	0.0324		0.4109	0.4109		0.4109	0.4109		6,487.9225	6,487.9225	0.1244	0.1189	6,526.4770

6.0 Area Detail

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	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	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875
Unmitigated	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1234	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891		126.6348	126.6348	0.1221		129.6875
Total	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

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	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	23.9718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1234	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891		126.6348	126.6348	0.1221		129.6875
Total	26.4796	0.8092	70.2667	3.7200e-003		0.3891	0.3891		0.3891	0.3891	0.0000	126.6348	126.6348	0.1221	0.0000	129.6875

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
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Commerce Modelo - Mitigated - Los Angeles-South Coast County, Winter

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

**Southern California Edison
Effect of 28% RPS
Based on 2012 Baseline Data**

2012 Emission Factor ¹	702.44 lb CO2/MWh
2012 Renewables ²	20%
Without RPS	878.05 lb CO2/MWh
Future Renewables ³	28.0%
With 28% RPS	632.19 lb CO2/MWh
Reduction	10.0%

All renewable energy is assumed to be carbon neutral (i.e. no emissions from biogenic sources).

1. CalEEMod User's Guide, Appendix D, Table 1.2
2. SCE. 2012 Power Content Label (Actual)
3. 20% RPS

CH4

2012 Emission Factor ¹	0.029
With 28% RPS	0.026

N2O

2012 Emission Factor ¹	0.00617
With 28% RPS	0.00555

**2019
Southern California Edison
Effect of 32% RPS
Based on 2012 Baseline Data**

2012 Emission Factor ¹	702.44 lb CO2/MWh
2012 Renewables ²	20%
Without RPS	878.05 lb CO2/MWh
Future Renewables ³	32.0%
With 32% RPS	597.07 lb CO2/MWh
Reduction	15.0%

All renewable energy is assumed to be carbon neutral (i.e. no emissions from biogenic sources).

1. CalEEMod User's Guide, Appendix D, Table 1.2
2. SCE. 2012 Power Content Label (Actual)
3. 28% Actual RPS Procurement

http://www.cpuc.ca.gov/RPS_Homepage/

CH4

2012 Emission Factor ¹	0.029
With 28% RPS	0.025

N2O

2012 Emission Factor ¹	0.00617
With 28% RPS	0.00524

**2024
Southern California Edison
Effect of 40% RPS
Based on 2012 Baseline Data**

2012 Emission Factor ¹	702.44 lb CO2/MWh
2012 Renewables ²	20%
Without RPS	878.05 lb CO2/MWh
Future Renewables ³	40%
With 40% RPS	526.83 lb CO2/MWh
Reduction	25.0%

All renewable energy is assumed to be carbon neutral (i.e. no emissions from biogenic sources).

1. CalEEMod User's Guide, Appendix D, Table 1.2
2. SCE. 2012 Power Content Label (Actual)
3. RPS at 40%

http://www.cpuc.ca.gov/RPS_Homepage/

CH4

2012 Emission Factor ¹	0.029
With 28% RPS	0.022

N2O

2012 Emission Factor ¹	0.00617
With 28% RPS	0.00463