

## Appendix B

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### AIR QUALITY MODELING

RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**RLASCSP Operations  
Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	700.00	Dwelling Unit	43.75	700,000.00	2002
General Office Building	1,130.00	1000sqft	25.94	1,130,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	531.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Operations only

Woodstoves - No wood burning per SCAQMD Rule 445

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	0.00
tblConstructionPhase	PhaseEndDate	9/8/2021	6/2/2021
tblFireplaces	NumberWood	35.00	0.00
tblWoodstoves	NumberCatalytic	35.00	0.00
tblWoodstoves	NumberNoncatalytic	35.00	0.00



RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	43.2098	10.5369	62.0791	0.0661		1.1181	1.1181		1.1181	1.1181	0.0000	12,704.2339	12,704.2339	0.3421	0.2310	12,781.6255
Energy	0.6725	5.9345	3.8223	0.0367		0.4646	0.4646		0.4646	0.4646		7,336.2111	7,336.2111	0.1406	0.1345	7,379.8066
Mobile	50.8790	52.3605	521.9272	1.1373	115.6300	0.8134	116.4434	30.7988	0.7551	31.5539		117,121.067	117,121.067	7.5876	4.6974	118,710.5100
<b>Total</b>	<b>94.7613</b>	<b>68.8319</b>	<b>587.8286</b>	<b>1.2400</b>	<b>115.6300</b>	<b>2.3962</b>	<b>118.0261</b>	<b>30.7988</b>	<b>2.3378</b>	<b>33.1366</b>	<b>0.0000</b>	<b>137,161.4517</b>	<b>137,161.4517</b>	<b>8.0703</b>	<b>5.0629</b>	<b>138,871.9421</b>

**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	43.2098	10.5369	62.0791	0.0661		1.1181	1.1181		1.1181	1.1181	0.0000	12,704.2339	12,704.2339	0.3421	0.2310	12,781.6255
Energy	0.6725	5.9345	3.8223	0.0367		0.4646	0.4646		0.4646	0.4646		7,336.2111	7,336.2111	0.1406	0.1345	7,379.8066
Mobile	50.8790	52.3605	521.9272	1.1373	115.6300	0.8134	116.4434	30.7988	0.7551	31.5539		117,121.067	117,121.067	7.5876	4.6974	118,710.5100
<b>Total</b>	<b>94.7613</b>	<b>68.8319</b>	<b>587.8286</b>	<b>1.2400</b>	<b>115.6300</b>	<b>2.3962</b>	<b>118.0261</b>	<b>30.7988</b>	<b>2.3378</b>	<b>33.1366</b>	<b>0.0000</b>	<b>137,161.4517</b>	<b>137,161.4517</b>	<b>8.0703</b>	<b>5.0629</b>	<b>138,871.9421</b>

RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/3/2021	6/2/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
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	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	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
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**



RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Mitigated	50.8790	52.3605	521.9272	1.1373	115.6300	0.8134	116.4434	30.7988	0.7551	31.5539		117,121.0067	117,121.0067	7.5876	4.6974	118,710.5100
Unmitigated	50.8790	52.3605	521.9272	1.1373	115.6300	0.8134	116.4434	30.7988	0.7551	31.5539		117,121.0067	117,121.0067	7.5876	4.6974	118,710.5100

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	5,124.00	5,698.00	4396.00	17,434,309	17,434,309
General Office Building	11,006.20	2,497.30	791.00	26,839,050	26,839,050
<b>Total</b>	<b>16,130.20</b>	<b>8,195.30</b>	<b>5,187.00</b>	<b>44,273,359</b>	<b>44,273,359</b>

**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
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
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**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	0.6725	5.9345	3.8223	0.0367		0.4646	0.4646		0.4646	0.4646		7,336.2111	7,336.2111	0.1406	0.1345	7,379.8066
NaturalGas Unmitigated	0.6725	5.9345	3.8223	0.0367		0.4646	0.4646		0.4646	0.4646		7,336.2111	7,336.2111	0.1406	0.1345	7,379.8066

RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
Apartments Low Rise	30439.2	0.3283	2.8052	1.1937	0.0179		0.2268	0.2268		0.2268	0.2268		3,581.0782	3,581.0782	0.0686	0.0657	3,602.3587
General Office Building	31918.6	0.3442	3.1293	2.6286	0.0188		0.2378	0.2378		0.2378	0.2378		3,755.1330	3,755.1330	0.0720	0.0688	3,777.4478
<b>Total</b>		<b>0.6725</b>	<b>5.9345</b>	<b>3.8223</b>	<b>0.0367</b>		<b>0.4646</b>	<b>0.4646</b>		<b>0.4646</b>	<b>0.4646</b>		<b>7,336.2111</b>	<b>7,336.2111</b>	<b>0.1406</b>	<b>0.1345</b>	<b>7,379.8066</b>

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					
Apartments Low Rise	30.4392	0.3283	2.8052	1.1937	0.0179		0.2268	0.2268		0.2268	0.2268		3,581.0782	3,581.0782	0.0686	0.0657	3,602.3587
General Office Building	31.9186	0.3442	3.1293	2.6286	0.0188		0.2378	0.2378		0.2378	0.2378		3,755.1330	3,755.1330	0.0720	0.0688	3,777.4478
<b>Total</b>		<b>0.6725</b>	<b>5.9345</b>	<b>3.8223</b>	<b>0.0367</b>		<b>0.4646</b>	<b>0.4646</b>		<b>0.4646</b>	<b>0.4646</b>		<b>7,336.2111</b>	<b>7,336.2111</b>	<b>0.1406</b>	<b>0.1345</b>	<b>7,379.8066</b>

**6.0 Area Detail**

RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	43.2098	10.5369	62.0791	0.0661		1.1181	1.1181		1.1181	1.1181	0.0000	12,704.2339	12,704.2339	0.3421	0.2310	12,781.6255
Unmitigated	43.2098	10.5369	62.0791	0.0661		1.1181	1.1181		1.1181	1.1181	0.0000	12,704.2339	12,704.2339	0.3421	0.2310	12,781.6255

RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	4.0699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.2340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1550	9.8700	4.2000	0.0630		0.7980	0.7980		0.7980	0.7980	0.0000	12,600.0000	12,600.0000	0.2415	0.2310	12,674.8755
Landscaping	1.7509	0.6669	57.8791	3.0600e-003		0.3201	0.3201		0.3201	0.3201		104.2339	104.2339	0.1006		106.7500
<b>Total</b>	<b>43.2098</b>	<b>10.5369</b>	<b>62.0791</b>	<b>0.0661</b>		<b>1.1181</b>	<b>1.1181</b>		<b>1.1181</b>	<b>1.1181</b>	<b>0.0000</b>	<b>12,704.2339</b>	<b>12,704.2339</b>	<b>0.3421</b>	<b>0.2310</b>	<b>12,781.6255</b>

RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	4.0699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.2340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1550	9.8700	4.2000	0.0630		0.7980	0.7980		0.7980	0.7980	0.0000	12,600.0000	12,600.0000	0.2415	0.2310	12,674.8755
Landscaping	1.7509	0.6669	57.8791	3.0600e-003		0.3201	0.3201		0.3201	0.3201		104.2339	104.2339	0.1006		106.7500
<b>Total</b>	<b>43.2098</b>	<b>10.5369</b>	<b>62.0791</b>	<b>0.0661</b>		<b>1.1181</b>	<b>1.1181</b>		<b>1.1181</b>	<b>1.1181</b>	<b>0.0000</b>	<b>12,704.2339</b>	<b>12,704.2339</b>	<b>0.3421</b>	<b>0.2310</b>	<b>12,781.6255</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

RLASCSP Operations - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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**

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RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**RLASCSP Operations  
Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	700.00	Dwelling Unit	43.75	700,000.00	2002
General Office Building	1,130.00	1000sqft	25.94	1,130,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	531.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Operations only

Woodstoves - No wood burning per SCAQMD Rule 445

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	0.00
tblConstructionPhase	PhaseEndDate	9/8/2021	6/2/2021
tblFireplaces	NumberWood	35.00	0.00
tblWoodstoves	NumberCatalytic	35.00	0.00
tblWoodstoves	NumberNoncatalytic	35.00	0.00





RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	43.2098	10.5369	62.0791	0.0661		1.1181	1.1181		1.1181	1.1181	0.0000	12,704.23 39	12,704.23 39	0.3421	0.2310	12,781.62 55
Energy	0.6725	5.9345	3.8223	0.0367		0.4646	0.4646		0.4646	0.4646		7,336.2111	7,336.2111	0.1406	0.1345	7,379.806 6
Mobile	49.9677	56.5861	509.6338	1.0884	115.6300	0.8138	116.4437	30.7988	0.7554	31.5542		112,118.97 92	112,118.97 92	7.8070	4.9097	113,777.22 96
<b>Total</b>	<b>93.8500</b>	<b>73.0574</b>	<b>575.5352</b>	<b>1.1911</b>	<b>115.6300</b>	<b>2.3965</b>	<b>118.0265</b>	<b>30.7988</b>	<b>2.3382</b>	<b>33.1370</b>	<b>0.0000</b>	<b>132,159.4 242</b>	<b>132,159.4 242</b>	<b>8.2898</b>	<b>5.2752</b>	<b>133,938.6 617</b>

**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	43.2098	10.5369	62.0791	0.0661		1.1181	1.1181		1.1181	1.1181	0.0000	12,704.23 39	12,704.23 39	0.3421	0.2310	12,781.62 55
Energy	0.6725	5.9345	3.8223	0.0367		0.4646	0.4646		0.4646	0.4646		7,336.2111	7,336.2111	0.1406	0.1345	7,379.806 6
Mobile	49.9677	56.5861	509.6338	1.0884	115.6300	0.8138	116.4437	30.7988	0.7554	31.5542		112,118.97 92	112,118.97 92	7.8070	4.9097	113,777.22 96
<b>Total</b>	<b>93.8500</b>	<b>73.0574</b>	<b>575.5352</b>	<b>1.1911</b>	<b>115.6300</b>	<b>2.3965</b>	<b>118.0265</b>	<b>30.7988</b>	<b>2.3382</b>	<b>33.1370</b>	<b>0.0000</b>	<b>132,159.4 242</b>	<b>132,159.4 242</b>	<b>8.2898</b>	<b>5.2752</b>	<b>133,938.6 617</b>

RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/3/2021	6/2/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
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	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	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
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Mitigated	49.9677	56.5861	509.6338	1.0884	115.6300	0.8138	116.4437	30.7988	0.7554	31.5542		112,118.9792	112,118.9792	7.8070	4.9097	113,777.2296
Unmitigated	49.9677	56.5861	509.6338	1.0884	115.6300	0.8138	116.4437	30.7988	0.7554	31.5542		112,118.9792	112,118.9792	7.8070	4.9097	113,777.2296

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	5,124.00	5,698.00	4396.00	17,434,309	17,434,309
General Office Building	11,006.20	2,497.30	791.00	26,839,050	26,839,050
<b>Total</b>	<b>16,130.20</b>	<b>8,195.30</b>	<b>5,187.00</b>	<b>44,273,359</b>	<b>44,273,359</b>

**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
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
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**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	0.6725	5.9345	3.8223	0.0367		0.4646	0.4646		0.4646	0.4646		7,336.2111	7,336.2111	0.1406	0.1345	7,379.8066
NaturalGas Unmitigated	0.6725	5.9345	3.8223	0.0367		0.4646	0.4646		0.4646	0.4646		7,336.2111	7,336.2111	0.1406	0.1345	7,379.8066



RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
Apartments Low Rise	30439.2	0.3283	2.8052	1.1937	0.0179		0.2268	0.2268		0.2268	0.2268		3,581.0782	3,581.0782	0.0686	0.0657	3,602.3587
General Office Building	31918.6	0.3442	3.1293	2.6286	0.0188		0.2378	0.2378		0.2378	0.2378		3,755.1330	3,755.1330	0.0720	0.0688	3,777.4478
<b>Total</b>		<b>0.6725</b>	<b>5.9345</b>	<b>3.8223</b>	<b>0.0367</b>		<b>0.4646</b>	<b>0.4646</b>		<b>0.4646</b>	<b>0.4646</b>		<b>7,336.2111</b>	<b>7,336.2111</b>	<b>0.1406</b>	<b>0.1345</b>	<b>7,379.8066</b>

**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					
Apartments Low Rise	30.4392	0.3283	2.8052	1.1937	0.0179		0.2268	0.2268		0.2268	0.2268		3,581.0782	3,581.0782	0.0686	0.0657	3,602.3587
General Office Building	31.9186	0.3442	3.1293	2.6286	0.0188		0.2378	0.2378		0.2378	0.2378		3,755.1330	3,755.1330	0.0720	0.0688	3,777.4478
<b>Total</b>		<b>0.6725</b>	<b>5.9345</b>	<b>3.8223</b>	<b>0.0367</b>		<b>0.4646</b>	<b>0.4646</b>		<b>0.4646</b>	<b>0.4646</b>		<b>7,336.2111</b>	<b>7,336.2111</b>	<b>0.1406</b>	<b>0.1345</b>	<b>7,379.8066</b>

**6.0 Area Detail**

RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	43.2098	10.5369	62.0791	0.0661		1.1181	1.1181		1.1181	1.1181	0.0000	12,704.2339	12,704.2339	0.3421	0.2310	12,781.6255
Unmitigated	43.2098	10.5369	62.0791	0.0661		1.1181	1.1181		1.1181	1.1181	0.0000	12,704.2339	12,704.2339	0.3421	0.2310	12,781.6255

RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	4.0699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.2340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1550	9.8700	4.2000	0.0630		0.7980	0.7980		0.7980	0.7980	0.0000	12,600.0000	12,600.0000	0.2415	0.2310	12,674.8755
Landscaping	1.7509	0.6669	57.8791	3.0600e-003		0.3201	0.3201		0.3201	0.3201		104.2339	104.2339	0.1006		106.7500
<b>Total</b>	<b>43.2098</b>	<b>10.5369</b>	<b>62.0791</b>	<b>0.0661</b>		<b>1.1181</b>	<b>1.1181</b>		<b>1.1181</b>	<b>1.1181</b>	<b>0.0000</b>	<b>12,704.2339</b>	<b>12,704.2339</b>	<b>0.3421</b>	<b>0.2310</b>	<b>12,781.6255</b>

RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	4.0699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.2340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1550	9.8700	4.2000	0.0630		0.7980	0.7980		0.7980	0.7980	0.0000	12,600.0000	12,600.0000	0.2415	0.2310	12,674.8755
Landscaping	1.7509	0.6669	57.8791	3.0600e-003		0.3201	0.3201		0.3201	0.3201		104.2339	104.2339	0.1006		106.7500
<b>Total</b>	<b>43.2098</b>	<b>10.5369</b>	<b>62.0791</b>	<b>0.0661</b>		<b>1.1181</b>	<b>1.1181</b>		<b>1.1181</b>	<b>1.1181</b>	<b>0.0000</b>	<b>12,704.2339</b>	<b>12,704.2339</b>	<b>0.3421</b>	<b>0.2310</b>	<b>12,781.6255</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

RLASCSP Operations - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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**

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