

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Annual

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

**Lincoln Square Project - Commercial**

**Yolo/Solano AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	30.00	Space	1.90	12,000.00	0
Convenience Market with Gas Pumps	8.00	Pump	0.03	4,500.00	0
Single Family Housing	101.00	Dwelling Unit	11.00	181,800.00	289

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	55
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted per AQ Questionnaire.

Construction Phase - Construction not modeled.

Trips and VMT - Site prep and grading phase haul trip lengths adjusted per applicant-provided information.

Grading -

Vehicle Trips - Trip generation rate adjusted based on information provided by the project-specific traffic consultant.

Mobile Land Use Mitigation -

Water Mitigation - Outdoor water conservation strategy applied in order to reflect compliance with MWELO.

Area Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	8/13/2021	8/2/2021
tblLandUse	LandUseSquareFeet	1,129.40	4,500.00
tblLandUse	LotAcreage	0.27	1.90
tblLandUse	LotAcreage	32.79	11.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	65.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	322.50	161.75
tblVehicleTrips	ST_TR	9.54	5.20
tblVehicleTrips	SU_TR	322.50	161.75
tblVehicleTrips	SU_TR	8.55	5.20
tblVehicleTrips	WD_TR	322.50	161.75
tblVehicleTrips	WD_TR	9.44	5.20

**2.0 Emissions Summary**



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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2021	9-30-2021	0.0318	0.0318
		Highest	0.0318	0.0318

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.8087	0.0271	2.2601	3.2400e-003		0.2236	0.2236		0.2236	0.2236	23.0823	1.2257	24.3080	0.0504	1.1100e-003	25.8980
Energy	0.0146	0.1245	0.0532	7.9000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	222.0036	222.0036	0.0154	4.1700e-003	223.6302
Mobile	0.8910	1.2666	7.7267	0.0158	1.5291	0.0139	1.5430	0.4093	0.0130	0.4223	0.0000	1,483.0553	1,483.0553	0.1045	0.0849	1,510.9577
Waste						0.0000	0.0000		0.0000	0.0000	22.8791	0.0000	22.8791	1.3521	0.0000	56.6820
Water						0.0000	0.0000		0.0000	0.0000	2.1143	4.6965	6.8107	0.2179	5.2200e-003	13.8140
<b>Total</b>	<b>2.7142</b>	<b>1.4182</b>	<b>10.0400</b>	<b>0.0198</b>	<b>1.5291</b>	<b>0.2476</b>	<b>1.7767</b>	<b>0.4093</b>	<b>0.2467</b>	<b>0.6560</b>	<b>48.0757</b>	<b>1,710.9810</b>	<b>1,759.0567</b>	<b>1.7403</b>	<b>0.0954</b>	<b>1,830.9819</b>

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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	0.8235	8.6400e-003	0.7500	4.0000e-005		4.1600e-003	4.1600e-003		4.1600e-003	4.1600e-003	0.0000	1.2257	1.2257	1.1800e-003	0.0000	1.2551
Energy	0.0146	0.1245	0.0532	7.9000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	222.0036	222.0036	0.0154	4.1700e-003	223.6302
Mobile	0.8869	1.2570	7.6685	0.0156	1.5138	0.0138	1.5276	0.4052	0.0129	0.4181	0.0000	1,468.7586	1,468.7586	0.1038	0.0842	1,496.4490
Waste						0.0000	0.0000		0.0000	0.0000	22.8791	0.0000	22.8791	1.3521	0.0000	56.6820
Water						0.0000	0.0000		0.0000	0.0000	2.1143	4.4245	6.5387	0.2179	5.2100e-003	13.5393
<b>Total</b>	<b>1.7250</b>	<b>1.3901</b>	<b>8.4717</b>	<b>0.0165</b>	<b>1.5138</b>	<b>0.0280</b>	<b>1.5418</b>	<b>0.4052</b>	<b>0.0271</b>	<b>0.4323</b>	<b>24.9934</b>	<b>1,696.4123</b>	<b>1,721.4056</b>	<b>1.6904</b>	<b>0.0936</b>	<b>1,791.5556</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>36.45</b>	<b>1.98</b>	<b>15.62</b>	<b>16.92</b>	<b>1.00</b>	<b>88.70</b>	<b>13.22</b>	<b>1.00</b>	<b>89.01</b>	<b>34.09</b>	<b>48.01</b>	<b>0.85</b>	<b>2.14</b>	<b>2.87</b>	<b>1.87</b>	<b>2.15</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2021	8/2/2021	5	1	

**Acres of Grading (Site Preparation Phase): 1.5**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.9**

**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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9400e-003	0.0203	0.0106	2.0000e-005		1.0200e-003	1.0200e-003		9.4000e-004	9.4000e-004	0.0000	1.6718	1.6718	5.4000e-004	0.0000	1.6853
<b>Total</b>	<b>1.9400e-003</b>	<b>0.0203</b>	<b>0.0106</b>	<b>2.0000e-005</b>	<b>9.8300e-003</b>	<b>1.0200e-003</b>	<b>0.0109</b>	<b>5.0500e-003</b>	<b>9.4000e-004</b>	<b>5.9900e-003</b>	<b>0.0000</b>	<b>1.6718</b>	<b>1.6718</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.6853</b>

**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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0568	0.0568	0.0000	0.0000	0.0573
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0568</b>	<b>0.0568</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0573</b>

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**3.2 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	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9400e-003	0.0203	0.0106	2.0000e-005		1.0200e-003	1.0200e-003		9.4000e-004	9.4000e-004	0.0000	1.6718	1.6718	5.4000e-004	0.0000	1.6853
<b>Total</b>	<b>1.9400e-003</b>	<b>0.0203</b>	<b>0.0106</b>	<b>2.0000e-005</b>	<b>9.8300e-003</b>	<b>1.0200e-003</b>	<b>0.0109</b>	<b>5.0500e-003</b>	<b>9.4000e-004</b>	<b>5.9900e-003</b>	<b>0.0000</b>	<b>1.6718</b>	<b>1.6718</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.6853</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	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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0568	0.0568	0.0000	0.0000	0.0573
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0568</b>	<b>0.0568</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0573</b>



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**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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	tons/yr										MT/yr					
Mitigated	0.8869	1.2570	7.6685	0.0156	1.5138	0.0138	1.5276	0.4052	0.0129	0.4181	0.0000	1,468.7586	1,468.7586	0.1038	0.0842	1,496.4490
Unmitigated	0.8910	1.2666	7.7267	0.0158	1.5291	0.0139	1.5430	0.4093	0.0130	0.4223	0.0000	1,483.0553	1,483.0553	0.1045	0.0849	1,510.9577

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	1,294.00	1,294.00	1,294.00	2,552,907	2,527,378
Parking Lot	0.00	0.00	0.00		
Single Family Housing	525.20	525.20	525.20	1,552,323	1,536,800
<b>Total</b>	<b>1,819.20</b>	<b>1,819.20</b>	<b>1,819.20</b>	<b>4,105,230</b>	<b>4,064,178</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
Convenience Market with Gas	10.00	5.00	7.00	0.80	80.20	19.00	100	0	0
Parking Lot	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	7.00	46.00	13.00	41.00	100	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020
Parking Lot	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020
Single Family Housing	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020

**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	77.9152	77.9152	0.0126	1.5300e-003	78.6857
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	77.9152	77.9152	0.0126	1.5300e-003	78.6857
NaturalGas Mitigated	0.0146	0.1245	0.0532	7.9000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.0883	144.0883	2.7600e-003	2.6400e-003	144.9446
NaturalGas Unmitigated	0.0146	0.1245	0.0532	7.9000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.0883	144.0883	2.7600e-003	2.6400e-003	144.9446

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**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	10530	6.0000e-005	5.2000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5619	0.5619	1.0000e-005	1.0000e-005	0.5653
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
Single Family Housing	2.68958e+006	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.5264	143.5264	2.7500e-003	2.6300e-003	144.3793
<b>Total</b>		<b>0.0146</b>	<b>0.1245</b>	<b>0.0532</b>	<b>7.9000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>0.0101</b>	<b>0.0101</b>	<b>0.0000</b>	<b>144.0883</b>	<b>144.0883</b>	<b>2.7600e-003</b>	<b>2.6400e-003</b>	<b>144.9446</b>

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**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	10530	6.0000e-005	5.2000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5619	0.5619	1.0000e-005	1.0000e-005	0.5653
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
Single Family Housing	2.68958e+006	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.5264	143.5264	2.7500e-003	2.6300e-003	144.3793
<b>Total</b>		<b>0.0146</b>	<b>0.1245</b>	<b>0.0532</b>	<b>7.9000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>0.0101</b>	<b>0.0101</b>	<b>0.0000</b>	<b>144.0883</b>	<b>144.0883</b>	<b>2.7600e-003</b>	<b>2.6400e-003</b>	<b>144.9446</b>

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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			
Convenience Market with Gas Pumps	46755	4.3260	7.0000e-004	8.0000e-005	4.3687
Parking Lot	4200	0.3886	6.0000e-005	1.0000e-005	0.3924
Single Family Housing	791155	73.2007	0.0118	1.4400e-003	73.9245
<b>Total</b>		<b>77.9152</b>	<b>0.0126</b>	<b>1.5300e-003</b>	<b>78.6857</b>

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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			
Convenience Market with Gas Pumps	46755	4.3260	7.0000e-004	8.0000e-005	4.3687
Parking Lot	4200	0.3886	6.0000e-005	1.0000e-005	0.3924
Single Family Housing	791155	73.2007	0.0118	1.4400e-003	73.9245
<b>Total</b>		<b>77.9152</b>	<b>0.0126</b>	<b>1.5300e-003</b>	<b>78.6857</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

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**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
Category	tons/yr										MT/yr					
Mitigated	0.8235	8.6400e-003	0.7500	4.0000e-005		4.1600e-003	4.1600e-003		4.1600e-003	4.1600e-003	0.0000	1.2257	1.2257	1.1800e-003	0.0000	1.2551
Unmitigated	1.8087	0.0271	2.2601	3.2400e-003		0.2236	0.2236		0.2236	0.2236	23.0823	1.2257	24.3080	0.0504	1.1100e-003	25.8980

**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	0.0726					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7284					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9852	0.0185	1.5101	3.2000e-003		0.2195	0.2195		0.2195	0.2195	23.0823	0.0000	23.0823	0.0492	1.1100e-003	24.6428
Landscaping	0.0226	8.6400e-003	0.7500	4.0000e-005		4.1600e-003	4.1600e-003		4.1600e-003	4.1600e-003	0.0000	1.2257	1.2257	1.1800e-003	0.0000	1.2551
<b>Total</b>	<b>1.8087</b>	<b>0.0271</b>	<b>2.2601</b>	<b>3.2400e-003</b>		<b>0.2236</b>	<b>0.2236</b>		<b>0.2236</b>	<b>0.2236</b>	<b>23.0823</b>	<b>1.2257</b>	<b>24.3080</b>	<b>0.0504</b>	<b>1.1100e-003</b>	<b>25.8980</b>

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**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	tons/yr										MT/yr					
Architectural Coating	0.0726					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7284					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	0.0226	8.6400e-003	0.7500	4.0000e-005		4.1600e-003	4.1600e-003		4.1600e-003	4.1600e-003	0.0000	1.2257	1.2257	1.1800e-003	0.0000	1.2551
<b>Total</b>	<b>0.8235</b>	<b>8.6400e-003</b>	<b>0.7500</b>	<b>4.0000e-005</b>		<b>4.1600e-003</b>	<b>4.1600e-003</b>		<b>4.1600e-003</b>	<b>4.1600e-003</b>	<b>0.0000</b>	<b>1.2257</b>	<b>1.2257</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.2551</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy



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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.5387	0.2179	5.2100e-003	13.5393
Unmitigated	6.8107	0.2179	5.2200e-003	13.8140

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.0836574 / 0.0512739	0.0850	2.7400e-003	7.0000e-005	0.1729
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.58056 / 4.14861	6.7257	0.2152	5.1500e-003	13.6411
<b>Total</b>		<b>6.8107</b>	<b>0.2179</b>	<b>5.2200e-003</b>	<b>13.8140</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.0836574 / 0.0410191	0.0817	2.7300e-003	7.0000e-005	0.1696
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.58056 / 3.31889	6.4570	0.2151	5.1500e-003	13.3697
<b>Total</b>		<b>6.5387</b>	<b>0.2179</b>	<b>5.2200e-003</b>	<b>13.5393</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.8791	1.3521	0.0000	56.6820
Unmitigated	22.8791	1.3521	0.0000	56.6820

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	112.71	22.8791	1.3521	0.0000	56.6820
<b>Total</b>		<b>22.8791</b>	<b>1.3521</b>	<b>0.0000</b>	<b>56.6820</b>

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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	112.71	22.8791	1.3521	0.0000	56.6820
<b>Total</b>		<b>22.8791</b>	<b>1.3521</b>	<b>0.0000</b>	<b>56.6820</b>

**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**

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

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Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**Lincoln Square Project - Commercial  
Yolo/Solano AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	30.00	Space	1.90	12,000.00	0
Single Family Housing	101.00	Dwelling Unit	11.00	181,800.00	289
Convenience Market with Gas Pumps	8.00	Pump	0.03	4,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	55
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted per AQ Questionnaire.

Construction Phase - Construction not modeled.

Trips and VMT - Site prep and grading phase haul trip lengths adjusted per applicant-provided information.

Grading -

Vehicle Trips - Trip generation rate adjusted based on information provided by the project-specific traffic consultant.

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation - Outdoor water conservation strategy applied in order to reflect compliance with MWELO.

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LandUseSquareFeet	1,129.40	4,500.00
tblLandUse	LotAcreage	0.27	1.90
tblLandUse	LotAcreage	32.79	11.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	65.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	322.50	161.75
tblVehicleTrips	ST_TR	9.54	5.20
tblVehicleTrips	SU_TR	322.50	161.75
tblVehicleTrips	SU_TR	8.55	5.20
tblVehicleTrips	WD_TR	322.50	161.75
tblVehicleTrips	WD_TR	9.44	5.20

**2.0 Emissions Summary**

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Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	28.6680	0.5459	45.1653	0.0785		5.3988	5.3988		5.3988	5.3988	620.5835	15.0121	635.5956	1.3376	0.0298	677.9109
Energy	0.0798	0.6819	0.2914	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.3025	870.3025	0.0167	0.0160	875.4743
Mobile	5.8634	6.4210	44.0048	0.0922	8.6826	0.0763	8.7589	2.3179	0.0716	2.3895		9,548.9277	9,548.9277	0.5976	0.4946	9,711.2683
<b>Total</b>	<b>34.6112</b>	<b>7.6488</b>	<b>89.4614</b>	<b>0.1750</b>	<b>8.6826</b>	<b>5.5302</b>	<b>14.2128</b>	<b>2.3179</b>	<b>5.5255</b>	<b>7.8434</b>	<b>620.5835</b>	<b>10,434.2423</b>	<b>11,054.8258</b>	<b>1.9519</b>	<b>0.5404</b>	<b>11,264.6535</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	4.6395	0.0960	8.3330	4.4000e-004		0.0462	0.0462		0.0462	0.0462	0.0000	15.0121	15.0121	0.0144	0.0000	15.3725
Energy	0.0798	0.6819	0.2914	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.3025	870.3025	0.0167	0.0160	875.4743
Mobile	5.8413	6.3727	43.6520	0.0913	8.5958	0.0756	8.6714	2.2947	0.0710	2.3657		9,456.6286	9,456.6286	0.5936	0.4908	9,617.7261
<b>Total</b>	<b>10.5606</b>	<b>7.1506</b>	<b>52.2763</b>	<b>0.0961</b>	<b>8.5958</b>	<b>0.1769</b>	<b>8.7727</b>	<b>2.2947</b>	<b>0.1723</b>	<b>2.4670</b>	<b>0.0000</b>	<b>10,341.9432</b>	<b>10,341.9432</b>	<b>0.6247</b>	<b>0.5068</b>	<b>10,508.5729</b>

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**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	69.49	6.51	41.57	45.11	1.00	96.80	38.28	1.00	96.88	68.55	100.00	0.88	6.45	67.99	6.22	6.71

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2021	8/2/2021	5	1	

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.9

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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.2 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>19.6570</b>	<b>2.0445</b>	<b>21.7015</b>	<b>10.1025</b>	<b>1.8809</b>	<b>11.9834</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

**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	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
Worker	0.0645	0.0358	0.5085	1.3500e-003	0.1369	7.8000e-004	0.1377	0.0363	7.2000e-004	0.0370		136.2751	136.2751	4.1800e-003	3.6000e-003	137.4534
<b>Total</b>	<b>0.0645</b>	<b>0.0358</b>	<b>0.5085</b>	<b>1.3500e-003</b>	<b>0.1369</b>	<b>7.8000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>7.2000e-004</b>	<b>0.0370</b>		<b>136.2751</b>	<b>136.2751</b>	<b>4.1800e-003</b>	<b>3.6000e-003</b>	<b>137.4534</b>

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

**3.2 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>19.6570</b>	<b>2.0445</b>	<b>21.7015</b>	<b>10.1025</b>	<b>1.8809</b>	<b>11.9834</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</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
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
Worker	0.0645	0.0358	0.5085	1.3500e-003	0.1369	7.8000e-004	0.1377	0.0363	7.2000e-004	0.0370		136.2751	136.2751	4.1800e-003	3.6000e-003	137.4534
<b>Total</b>	<b>0.0645</b>	<b>0.0358</b>	<b>0.5085</b>	<b>1.3500e-003</b>	<b>0.1369</b>	<b>7.8000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>7.2000e-004</b>	<b>0.0370</b>		<b>136.2751</b>	<b>136.2751</b>	<b>4.1800e-003</b>	<b>3.6000e-003</b>	<b>137.4534</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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	5.8413	6.3727	43.6520	0.0913	8.5958	0.0756	8.6714	2.2947	0.0710	2.3657		9,456.628 6	9,456.628 6	0.5936	0.4908	9,617.726 1
Unmitigated	5.8634	6.4210	44.0048	0.0922	8.6826	0.0763	8.7589	2.3179	0.0716	2.3895		9,548.927 7	9,548.927 7	0.5976	0.4946	9,711.268 3

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	1,294.00	1,294.00	1294.00	2,552,907	2,527,378
Parking Lot	0.00	0.00	0.00		
Single Family Housing	525.20	525.20	525.20	1,552,323	1,536,800
<b>Total</b>	<b>1,819.20</b>	<b>1,819.20</b>	<b>1,819.20</b>	<b>4,105,230</b>	<b>4,064,178</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
Convenience Market with Gas	10.00	5.00	7.00	0.80	80.20	19.00	100	0	0
Parking Lot	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	7.00	46.00	13.00	41.00	100	0	0

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020
Parking Lot	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020
Single Family Housing	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020

**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	0.0798	0.6819	0.2914	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.3025	870.3025	0.0167	0.0160	875.4743
NaturalGas Unmitigated	0.0798	0.6819	0.2914	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.3025	870.3025	0.0167	0.0160	875.4743

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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 - Natural Gas**

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	28.8493	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		3.3940	3.3940	7.0000e-005	6.0000e-005	3.4142
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
Single Family Housing	7368.72	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
<b>Total</b>		<b>0.0798</b>	<b>0.6819</b>	<b>0.2914</b>	<b>4.3500e-003</b>		<b>0.0551</b>	<b>0.0551</b>		<b>0.0551</b>	<b>0.0551</b>		<b>870.3025</b>	<b>870.3025</b>	<b>0.0167</b>	<b>0.0160</b>	<b>875.4743</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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 - Natural Gas**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.0288493	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		3.3940	3.3940	7.0000e-005	6.0000e-005	3.4142
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
Single Family Housing	7.36872	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
<b>Total</b>		<b>0.0798</b>	<b>0.6819</b>	<b>0.2914</b>	<b>4.3500e-003</b>		<b>0.0551</b>	<b>0.0551</b>		<b>0.0551</b>	<b>0.0551</b>		<b>870.3025</b>	<b>870.3025</b>	<b>0.0167</b>	<b>0.0160</b>	<b>875.4743</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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
Category	lb/day										lb/day					
Mitigated	4.6395	0.0960	8.3330	4.4000e-004		0.0462	0.0462		0.0462	0.0462	0.0000	15.0121	15.0121	0.0144	0.0000	15.3725
Unmitigated	28.6680	0.5459	45.1653	0.0785		5.3988	5.3988		5.3988	5.3988	620.5835	15.0121	635.5956	1.3376	0.0298	677.9109

**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	0.3976					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9911					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	24.0285	0.4499	36.8323	0.0781		5.3526	5.3526		5.3526	5.3526	620.5835	0.0000	620.5835	1.3232	0.0298	662.5383
Landscaping	0.2508	0.0960	8.3330	4.4000e-004		0.0462	0.0462		0.0462	0.0462		15.0121	15.0121	0.0144		15.3725
<b>Total</b>	<b>28.6680</b>	<b>0.5459</b>	<b>45.1653</b>	<b>0.0785</b>		<b>5.3988</b>	<b>5.3988</b>		<b>5.3988</b>	<b>5.3988</b>	<b>620.5835</b>	<b>15.0121</b>	<b>635.5956</b>	<b>1.3376</b>	<b>0.0298</b>	<b>677.9109</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	0.3976					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9911					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	0.2508	0.0960	8.3330	4.4000e-004		0.0462	0.0462		0.0462	0.0462		15.0121	15.0121	0.0144		15.3725
<b>Total</b>	<b>4.6395</b>	<b>0.0960</b>	<b>8.3330</b>	<b>4.4000e-004</b>		<b>0.0462</b>	<b>0.0462</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>15.0121</b>	<b>15.0121</b>	<b>0.0144</b>	<b>0.0000</b>	<b>15.3725</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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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Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**Lincoln Square Project - Commercial**

**Yolo/Solano AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	30.00	Space	1.90	12,000.00	0
Single Family Housing	101.00	Dwelling Unit	11.00	181,800.00	289
Convenience Market with Gas Pumps	8.00	Pump	0.03	4,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	55
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted per AQ Questionnaire.

Construction Phase - Construction not modeled.

Trips and VMT - Site prep and grading phase haul trip lengths adjusted per applicant-provided information.

Grading -

Vehicle Trips - Trip generation rate adjusted based on information provided by the project-specific traffic consultant.

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation - Outdoor water conservation strategy applied in order to reflect compliance with MWELO.

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LandUseSquareFeet	1,129.40	4,500.00
tblLandUse	LotAcreage	0.27	1.90
tblLandUse	LotAcreage	32.79	11.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	65.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	322.50	161.75
tblVehicleTrips	ST_TR	9.54	5.20
tblVehicleTrips	SU_TR	322.50	161.75
tblVehicleTrips	SU_TR	8.55	5.20
tblVehicleTrips	WD_TR	322.50	161.75
tblVehicleTrips	WD_TR	9.44	5.20

**2.0 Emissions Summary**

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Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	28.6680	0.5459	45.1653	0.0785		5.3988	5.3988		5.3988	5.3988	620.5835	15.0121	635.5956	1.3376	0.0298	677.9109
Energy	0.0798	0.6819	0.2914	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.3025	870.3025	0.0167	0.0160	875.4743
Mobile	4.7873	7.3998	46.3795	0.0855	8.6826	0.0764	8.7590	2.3179	0.0717	2.3896		8,858.6998	8,858.6998	0.6875	0.5367	9,035.8270
<b>Total</b>	<b>33.5351</b>	<b>8.6276</b>	<b>91.8361</b>	<b>0.1683</b>	<b>8.6826</b>	<b>5.5303</b>	<b>14.2129</b>	<b>2.3179</b>	<b>5.5256</b>	<b>7.8435</b>	<b>620.5835</b>	<b>9,744.0144</b>	<b>10,364.5979</b>	<b>2.0418</b>	<b>0.5825</b>	<b>10,589.2121</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	4.6395	0.0960	8.3330	4.4000e-004		0.0462	0.0462		0.0462	0.0462	0.0000	15.0121	15.0121	0.0144	0.0000	15.3725
Energy	0.0798	0.6819	0.2914	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.3025	870.3025	0.0167	0.0160	875.4743
Mobile	4.7638	7.3441	46.0460	0.0847	8.5958	0.0757	8.6715	2.2947	0.0710	2.3657		8,773.4140	8,773.4140	0.6834	0.5326	8,949.2144
<b>Total</b>	<b>9.4831</b>	<b>8.1220</b>	<b>54.6703</b>	<b>0.0895</b>	<b>8.5958</b>	<b>0.1770</b>	<b>8.7728</b>	<b>2.2947</b>	<b>0.1723</b>	<b>2.4670</b>	<b>0.0000</b>	<b>9,658.7286</b>	<b>9,658.7286</b>	<b>0.7145</b>	<b>0.5486</b>	<b>9,840.0612</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	71.72	5.86	40.47	46.86	1.00	96.80	38.28	1.00	96.88	68.55	100.00	0.88	6.81	65.01	5.82	7.07

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2021	8/2/2021	5	1	

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.9

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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.2 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>19.6570</b>	<b>2.0445</b>	<b>21.7015</b>	<b>10.1025</b>	<b>1.8809</b>	<b>11.9834</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

**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	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
Worker	0.0585	0.0448	0.4577	1.2100e-003	0.1369	7.8000e-004	0.1377	0.0363	7.2000e-004	0.0370		122.3457	122.3457	4.8300e-003	4.1900e-003	123.7146
<b>Total</b>	<b>0.0585</b>	<b>0.0448</b>	<b>0.4577</b>	<b>1.2100e-003</b>	<b>0.1369</b>	<b>7.8000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>7.2000e-004</b>	<b>0.0370</b>		<b>122.3457</b>	<b>122.3457</b>	<b>4.8300e-003</b>	<b>4.1900e-003</b>	<b>123.7146</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.2 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>19.6570</b>	<b>2.0445</b>	<b>21.7015</b>	<b>10.1025</b>	<b>1.8809</b>	<b>11.9834</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</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
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
Worker	0.0585	0.0448	0.4577	1.2100e-003	0.1369	7.8000e-004	0.1377	0.0363	7.2000e-004	0.0370		122.3457	122.3457	4.8300e-003	4.1900e-003	123.7146
<b>Total</b>	<b>0.0585</b>	<b>0.0448</b>	<b>0.4577</b>	<b>1.2100e-003</b>	<b>0.1369</b>	<b>7.8000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>7.2000e-004</b>	<b>0.0370</b>		<b>122.3457</b>	<b>122.3457</b>	<b>4.8300e-003</b>	<b>4.1900e-003</b>	<b>123.7146</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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	4.7638	7.3441	46.0460	0.0847	8.5958	0.0757	8.6715	2.2947	0.0710	2.3657		8,773.4140	8,773.4140	0.6834	0.5326	8,949.2144
Unmitigated	4.7873	7.3998	46.3795	0.0855	8.6826	0.0764	8.7590	2.3179	0.0717	2.3896		8,858.6998	8,858.6998	0.6875	0.5367	9,035.8270

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	1,294.00	1,294.00	1294.00	2,552,907	2,527,378
Parking Lot	0.00	0.00	0.00		
Single Family Housing	525.20	525.20	525.20	1,552,323	1,536,800
<b>Total</b>	<b>1,819.20</b>	<b>1,819.20</b>	<b>1,819.20</b>	<b>4,105,230</b>	<b>4,064,178</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
Convenience Market with Gas	10.00	5.00	7.00	0.80	80.20	19.00	100	0	0
Parking Lot	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	7.00	46.00	13.00	41.00	100	0	0

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020
Parking Lot	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020
Single Family Housing	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020

**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	0.0798	0.6819	0.2914	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.3025	870.3025	0.0167	0.0160	875.4743
NaturalGas Unmitigated	0.0798	0.6819	0.2914	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.3025	870.3025	0.0167	0.0160	875.4743

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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 - Natural Gas**

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	28.8493	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		3.3940	3.3940	7.0000e-005	6.0000e-005	3.4142
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
Single Family Housing	7368.72	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
<b>Total</b>		<b>0.0798</b>	<b>0.6819</b>	<b>0.2914</b>	<b>4.3500e-003</b>		<b>0.0551</b>	<b>0.0551</b>		<b>0.0551</b>	<b>0.0551</b>		<b>870.3025</b>	<b>870.3025</b>	<b>0.0167</b>	<b>0.0160</b>	<b>875.4743</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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 - Natural Gas**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.0288493	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		3.3940	3.3940	7.0000e-005	6.0000e-005	3.4142
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
Single Family Housing	7.36872	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
<b>Total</b>		<b>0.0798</b>	<b>0.6819</b>	<b>0.2914</b>	<b>4.3500e-003</b>		<b>0.0551</b>	<b>0.0551</b>		<b>0.0551</b>	<b>0.0551</b>		<b>870.3025</b>	<b>870.3025</b>	<b>0.0167</b>	<b>0.0160</b>	<b>875.4743</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

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**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
Category	lb/day										lb/day					
Mitigated	4.6395	0.0960	8.3330	4.4000e-004		0.0462	0.0462		0.0462	0.0462	0.0000	15.0121	15.0121	0.0144	0.0000	15.3725
Unmitigated	28.6680	0.5459	45.1653	0.0785		5.3988	5.3988		5.3988	5.3988	620.5835	15.0121	635.5956	1.3376	0.0298	677.9109

**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	0.3976					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9911					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	24.0285	0.4499	36.8323	0.0781		5.3526	5.3526		5.3526	5.3526	620.5835	0.0000	620.5835	1.3232	0.0298	662.5383
Landscaping	0.2508	0.0960	8.3330	4.4000e-004		0.0462	0.0462		0.0462	0.0462		15.0121	15.0121	0.0144		15.3725
<b>Total</b>	<b>28.6680</b>	<b>0.5459</b>	<b>45.1653</b>	<b>0.0785</b>		<b>5.3988</b>	<b>5.3988</b>		<b>5.3988</b>	<b>5.3988</b>	<b>620.5835</b>	<b>15.0121</b>	<b>635.5956</b>	<b>1.3376</b>	<b>0.0298</b>	<b>677.9109</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	0.3976					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9911					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	0.2508	0.0960	8.3330	4.4000e-004		0.0462	0.0462		0.0462	0.0462		15.0121	15.0121	0.0144		15.3725
<b>Total</b>	<b>4.6395</b>	<b>0.0960</b>	<b>8.3330</b>	<b>4.4000e-004</b>		<b>0.0462</b>	<b>0.0462</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>15.0121</b>	<b>15.0121</b>	<b>0.0144</b>	<b>0.0000</b>	<b>15.3725</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy



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

**Lincoln Square Project - Residential**

**Yolo/Solano AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	101.00	Dwelling Unit	11.00	181,800.00	289

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	55
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted based on site plan and applicant-provided AQ Questionnaire.

Construction Phase - Construction phase timing adjusted based on applicant-provided AQ Questionnaire.

Trips and VMT - Site prep and grading phase haul trip lengths adjusted per applicant-provided information.

Grading -

Vehicle Trips - Trip generation rate adjusted to be consistent with info provided by project-specific traffic consultant (Urban Crossroads)

Woodstoves - Per applicant-provided information, no fireplaces.

Mobile Land Use Mitigation -

Energy Mitigation - 100 percent of electricity generated on-site, pursuant to 2019 CBSC for single-family homes.

Water Mitigation - Outdoor water conservation strategy applied compliance with MWELO.

Stationary Sources - Emergency Generators and Fire Pumps -

Area Mitigation -

## Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Annual

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	480.00
tblConstructionPhase	NumDays	300.00	480.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	20.00	2.00
tblFireplaces	NumberNoFireplace	69.69	101.00
tblFireplaces	NumberWood	31.31	0.00
tblLandUse	LotAcreage	32.79	11.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	9.54	5.20
tblVehicleTrips	SU_TR	8.55	5.20
tblVehicleTrips	WD_TR	9.44	5.20

**2.0 Emissions Summary**

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

**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					
2022	0.5161	2.1317	2.2026	4.0800e-003	0.1314	0.1049	0.2363	0.0472	0.0988	0.1460	0.0000	356.3460	356.3460	0.0755	3.9200e-003	359.4026
2023	0.6308	2.1097	2.4837	4.5200e-003	0.0502	0.1008	0.1509	0.0136	0.0954	0.1089	0.0000	394.2068	394.2068	0.0748	4.9200e-003	397.5428
2024	0.0702	0.1809	0.2278	4.2000e-004	4.7000e-003	8.1100e-003	0.0128	1.2700e-003	7.6900e-003	8.9600e-003	0.0000	36.2393	36.2393	6.6400e-003	4.3000e-004	36.5330
<b>Maximum</b>	<b>0.6308</b>	<b>2.1317</b>	<b>2.4837</b>	<b>4.5200e-003</b>	<b>0.1314</b>	<b>0.1049</b>	<b>0.2363</b>	<b>0.0472</b>	<b>0.0988</b>	<b>0.1460</b>	<b>0.0000</b>	<b>394.2068</b>	<b>394.2068</b>	<b>0.0755</b>	<b>4.9200e-003</b>	<b>397.5428</b>

**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					
2022	0.5161	2.1317	2.2026	4.0800e-003	0.1314	0.1049	0.2363	0.0472	0.0988	0.1460	0.0000	356.3456	356.3456	0.0755	3.9200e-003	359.4022
2023	0.6308	2.1097	2.4837	4.5200e-003	0.0502	0.1008	0.1509	0.0136	0.0954	0.1089	0.0000	394.2064	394.2064	0.0748	4.9200e-003	397.5424
2024	0.0702	0.1809	0.2278	4.2000e-004	4.7000e-003	8.1100e-003	0.0128	1.2700e-003	7.6900e-003	8.9600e-003	0.0000	36.2393	36.2393	6.6400e-003	4.3000e-004	36.5330
<b>Maximum</b>	<b>0.6308</b>	<b>2.1317</b>	<b>2.4837</b>	<b>4.5200e-003</b>	<b>0.1314</b>	<b>0.1049</b>	<b>0.2363</b>	<b>0.0472</b>	<b>0.0988</b>	<b>0.1460</b>	<b>0.0000</b>	<b>394.2064</b>	<b>394.2064</b>	<b>0.0755</b>	<b>4.9200e-003</b>	<b>397.5424</b>

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**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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2022	5-31-2022	0.9131	0.9131
2	6-1-2022	8-31-2022	0.7443	0.7443
3	9-1-2022	11-30-2022	0.7372	0.7372
4	12-1-2022	2-28-2023	0.6961	0.6961
5	3-1-2023	5-31-2023	0.6927	0.6927
6	6-1-2023	8-31-2023	0.6922	0.6922
7	9-1-2023	11-30-2023	0.6856	0.6856
8	12-1-2023	2-29-2024	0.4765	0.4765
		Highest	0.9131	0.9131

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**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	tons/yr										MT/yr					
Area	0.8567	0.0165	1.2316	1.6100e-003		0.0828	0.0828		0.0828	0.0828	10.5278	1.2250	11.7528	0.0504	0.0000	13.0126
Energy	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	216.7271	216.7271	0.0146	4.0700e-003	218.3038
Mobile	0.2937	0.4516	2.7509	5.9100e-003	0.5782	5.1300e-003	0.5833	0.1548	4.8200e-003	0.1596	0.0000	556.0183	556.0183	0.0360	0.0304	565.9694
Waste						0.0000	0.0000		0.0000	0.0000	22.8791	0.0000	22.8791	1.3521	0.0000	56.6820
Water						0.0000	0.0000		0.0000	0.0000	2.0877	4.6380	6.7257	0.2152	5.1500e-003	13.6411
<b>Total</b>	<b>1.1649</b>	<b>0.5920</b>	<b>4.0352</b>	<b>8.3100e-003</b>	<b>0.5782</b>	<b>0.0979</b>	<b>0.6761</b>	<b>0.1548</b>	<b>0.0976</b>	<b>0.2524</b>	<b>35.4946</b>	<b>778.6084</b>	<b>814.1030</b>	<b>1.6683</b>	<b>0.0396</b>	<b>867.6089</b>

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

**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	0.8037	8.6400e-003	0.7496	4.0000e-005		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	1.2250	1.2250	1.1800e-003	0.0000	1.2544
Energy	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.5264	143.5264	2.7500e-003	2.6300e-003	144.3793
Mobile	0.2937	0.4516	2.7509	5.9100e-003	0.5782	5.1300e-003	0.5833	0.1548	4.8200e-003	0.1596	0.0000	556.0183	556.0183	0.0360	0.0304	565.9694
Waste						0.0000	0.0000		0.0000	0.0000	22.8791	0.0000	22.8791	1.3521	0.0000	56.6820
Water						0.0000	0.0000		0.0000	0.0000	2.0877	4.3693	6.4570	0.2151	5.1500e-003	13.3697
<b>Total</b>	<b>1.1119</b>	<b>0.5841</b>	<b>3.5533</b>	<b>6.7400e-003</b>	<b>0.5782</b>	<b>0.0193</b>	<b>0.5975</b>	<b>0.1548</b>	<b>0.0190</b>	<b>0.1738</b>	<b>24.9668</b>	<b>705.1391</b>	<b>730.1059</b>	<b>1.6072</b>	<b>0.0382</b>	<b>781.6548</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>4.56</b>	<b>1.33</b>	<b>11.94</b>	<b>18.89</b>	<b>0.00</b>	<b>80.29</b>	<b>11.63</b>	<b>0.00</b>	<b>80.55</b>	<b>31.15</b>	<b>29.66</b>	<b>9.44</b>	<b>10.32</b>	<b>3.66</b>	<b>3.64</b>	<b>9.91</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	3/1/2022	3/28/2022	5	20	
2	Paving	Paving	3/29/2022	3/30/2022	5	2	
3	Building Construction	Building Construction	3/31/2022	1/31/2024	5	480	

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4	Architectural Coating	Architectural Coating	4/14/2022	2/14/2024	5	480
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**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 0**

**Residential Indoor: 368,145; Residential Outdoor: 122,715; 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
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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
Grading	8	20.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT



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Paving	6	15.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	36.00	11.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 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					0.0920	0.0000	0.0920	0.0365	0.0000	0.0365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3884	0.2904	6.2000e-004		0.0164	0.0164		0.0150	0.0150	0.0000	54.5346	54.5346	0.0176	0.0000	54.9755
<b>Total</b>	<b>0.0363</b>	<b>0.3884</b>	<b>0.2904</b>	<b>6.2000e-004</b>	<b>0.0920</b>	<b>0.0164</b>	<b>0.1084</b>	<b>0.0365</b>	<b>0.0150</b>	<b>0.0516</b>	<b>0.0000</b>	<b>54.5346</b>	<b>54.5346</b>	<b>0.0176</b>	<b>0.0000</b>	<b>54.9755</b>

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**3.2 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	0.0000	0.0000	0.0000	0.0000	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	5.7000e-004	3.9000e-004	4.5400e-003	1.0000e-005	1.4700e-003	1.0000e-005	1.4800e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2277	1.2277	4.0000e-005	4.0000e-005	1.2394
<b>Total</b>	<b>5.7000e-004</b>	<b>3.9000e-004</b>	<b>4.5400e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>1.0000e-005</b>	<b>1.4800e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2277</b>	<b>1.2277</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.2394</b>

**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					0.0920	0.0000	0.0920	0.0365	0.0000	0.0365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3884	0.2904	6.2000e-004		0.0164	0.0164		0.0150	0.0150	0.0000	54.5345	54.5345	0.0176	0.0000	54.9755
<b>Total</b>	<b>0.0363</b>	<b>0.3884</b>	<b>0.2904</b>	<b>6.2000e-004</b>	<b>0.0920</b>	<b>0.0164</b>	<b>0.1084</b>	<b>0.0365</b>	<b>0.0150</b>	<b>0.0516</b>	<b>0.0000</b>	<b>54.5345</b>	<b>54.5345</b>	<b>0.0176</b>	<b>0.0000</b>	<b>54.9755</b>

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**3.2 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	0.0000	0.0000	0.0000	0.0000	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	5.7000e-004	3.9000e-004	4.5400e-003	1.0000e-005	1.4700e-003	1.0000e-005	1.4800e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2277	1.2277	4.0000e-005	4.0000e-005	1.2394
<b>Total</b>	<b>5.7000e-004</b>	<b>3.9000e-004</b>	<b>4.5400e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>1.0000e-005</b>	<b>1.4800e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2277</b>	<b>1.2277</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.2394</b>

**3.3 Paving - 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	1.1000e-003	0.0111	0.0146	2.0000e-005		5.7000e-004	5.7000e-004		5.2000e-004	5.2000e-004	0.0000	2.0028	2.0028	6.5000e-004	0.0000	2.0190
Paving	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>1.1000e-003</b>	<b>0.0111</b>	<b>0.0146</b>	<b>2.0000e-005</b>		<b>5.7000e-004</b>	<b>5.7000e-004</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.0028</b>	<b>2.0028</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>2.0190</b>

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**3.3 Paving - 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	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0921	0.0921	0.0000	0.0000	0.0930
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0921</b>	<b>0.0921</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0930</b>

**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	1.1000e-003	0.0111	0.0146	2.0000e-005		5.7000e-004	5.7000e-004		5.2000e-004	5.2000e-004	0.0000	2.0028	2.0028	6.5000e-004	0.0000	2.0190
Paving	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>1.1000e-003</b>	<b>0.0111</b>	<b>0.0146</b>	<b>2.0000e-005</b>		<b>5.7000e-004</b>	<b>5.7000e-004</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.0028</b>	<b>2.0028</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>2.0190</b>

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**3.3 Paving - 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	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0921	0.0921	0.0000	0.0000	0.0930
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0921</b>	<b>0.0921</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0930</b>

**3.4 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	0.1681	1.5381	1.6118	2.6500e-003		0.0797	0.0797		0.0750	0.0750	0.0000	228.2494	228.2494	0.0547	0.0000	229.6164
<b>Total</b>	<b>0.1681</b>	<b>1.5381</b>	<b>1.6118</b>	<b>2.6500e-003</b>		<b>0.0797</b>	<b>0.0797</b>		<b>0.0750</b>	<b>0.0750</b>	<b>0.0000</b>	<b>228.2494</b>	<b>228.2494</b>	<b>0.0547</b>	<b>0.0000</b>	<b>229.6164</b>

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**3.4 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	1.8500e-003	0.0538	0.0159	2.1000e-004	6.8500e-003	5.0000e-004	7.3500e-003	1.9800e-003	4.7000e-004	2.4500e-003	0.0000	20.5810	20.5810	9.0000e-005	3.1300e-003	21.5163
Worker	0.0102	6.8800e-003	0.0806	2.4000e-004	0.0261	1.4000e-004	0.0262	6.9400e-003	1.3000e-004	7.0700e-003	0.0000	21.7678	21.7678	7.1000e-004	6.4000e-004	21.9751
<b>Total</b>	<b>0.0120</b>	<b>0.0607</b>	<b>0.0965</b>	<b>4.5000e-004</b>	<b>0.0329</b>	<b>6.4000e-004</b>	<b>0.0336</b>	<b>8.9200e-003</b>	<b>6.0000e-004</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>42.3488</b>	<b>42.3488</b>	<b>8.0000e-004</b>	<b>3.7700e-003</b>	<b>43.4915</b>

**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	0.1681	1.5381	1.6118	2.6500e-003		0.0797	0.0797		0.0750	0.0750	0.0000	228.2491	228.2491	0.0547	0.0000	229.6161
<b>Total</b>	<b>0.1681</b>	<b>1.5381</b>	<b>1.6118</b>	<b>2.6500e-003</b>		<b>0.0797</b>	<b>0.0797</b>		<b>0.0750</b>	<b>0.0750</b>	<b>0.0000</b>	<b>228.2491</b>	<b>228.2491</b>	<b>0.0547</b>	<b>0.0000</b>	<b>229.6161</b>

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**3.4 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	1.8500e-003	0.0538	0.0159	2.1000e-004	6.8500e-003	5.0000e-004	7.3500e-003	1.9800e-003	4.7000e-004	2.4500e-003	0.0000	20.5810	20.5810	9.0000e-005	3.1300e-003	21.5163
Worker	0.0102	6.8800e-003	0.0806	2.4000e-004	0.0261	1.4000e-004	0.0262	6.9400e-003	1.3000e-004	7.0700e-003	0.0000	21.7678	21.7678	7.1000e-004	6.4000e-004	21.9751
<b>Total</b>	<b>0.0120</b>	<b>0.0607</b>	<b>0.0965</b>	<b>4.5000e-004</b>	<b>0.0329</b>	<b>6.4000e-004</b>	<b>0.0336</b>	<b>8.9200e-003</b>	<b>6.0000e-004</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>42.3488</b>	<b>42.3488</b>	<b>8.0000e-004</b>	<b>3.7700e-003</b>	<b>43.4915</b>

**3.4 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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3462</b>	<b>301.3462</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1383</b>

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**3.4 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	1.4800e-003	0.0607	0.0190	2.7000e-004	9.0400e-003	3.7000e-004	9.4100e-003	2.6100e-003	3.5000e-004	2.9700e-003	0.0000	26.2520	26.2520	8.0000e-005	3.9900e-003	27.4441
Worker	0.0124	8.0300e-003	0.0984	3.0000e-004	0.0344	1.8000e-004	0.0346	9.1600e-003	1.7000e-004	9.3200e-003	0.0000	27.9764	27.9764	8.5000e-004	7.8000e-004	28.2294
<b>Total</b>	<b>0.0139</b>	<b>0.0687</b>	<b>0.1174</b>	<b>5.7000e-004</b>	<b>0.0435</b>	<b>5.5000e-004</b>	<b>0.0440</b>	<b>0.0118</b>	<b>5.2000e-004</b>	<b>0.0123</b>	<b>0.0000</b>	<b>54.2285</b>	<b>54.2285</b>	<b>9.3000e-004</b>	<b>4.7700e-003</b>	<b>55.6735</b>

**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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3458</b>	<b>301.3458</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1380</b>



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

**3.4 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	1.4800e-003	0.0607	0.0190	2.7000e-004	9.0400e-003	3.7000e-004	9.4100e-003	2.6100e-003	3.5000e-004	2.9700e-003	0.0000	26.2520	26.2520	8.0000e-005	3.9900e-003	27.4441
Worker	0.0124	8.0300e-003	0.0984	3.0000e-004	0.0344	1.8000e-004	0.0346	9.1600e-003	1.7000e-004	9.3200e-003	0.0000	27.9764	27.9764	8.5000e-004	7.8000e-004	28.2294
<b>Total</b>	<b>0.0139</b>	<b>0.0687</b>	<b>0.1174</b>	<b>5.7000e-004</b>	<b>0.0435</b>	<b>5.5000e-004</b>	<b>0.0440</b>	<b>0.0118</b>	<b>5.2000e-004</b>	<b>0.0123</b>	<b>0.0000</b>	<b>54.2285</b>	<b>54.2285</b>	<b>9.3000e-004</b>	<b>4.7700e-003</b>	<b>55.6735</b>

**3.4 Building Construction - 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					
Off-Road	0.0169	0.1546	0.1859	3.1000e-004		7.0500e-003	7.0500e-003		6.6300e-003	6.6300e-003	0.0000	26.6627	26.6627	6.3000e-003	0.0000	26.8203
<b>Total</b>	<b>0.0169</b>	<b>0.1546</b>	<b>0.1859</b>	<b>3.1000e-004</b>		<b>7.0500e-003</b>	<b>7.0500e-003</b>		<b>6.6300e-003</b>	<b>6.6300e-003</b>	<b>0.0000</b>	<b>26.6627</b>	<b>26.6627</b>	<b>6.3000e-003</b>	<b>0.0000</b>	<b>26.8203</b>

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

**3.4 Building Construction - 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	1.3000e-004	5.3600e-003	1.6500e-003	2.0000e-005	8.0000e-004	3.0000e-005	8.3000e-004	2.3000e-004	3.0000e-005	2.6000e-004	0.0000	2.2787	2.2787	1.0000e-005	3.5000e-004	2.3822
Worker	1.0200e-003	6.3000e-004	8.1200e-003	3.0000e-005	3.0500e-003	2.0000e-005	3.0600e-003	8.1000e-004	1.0000e-005	8.2000e-004	0.0000	2.4122	2.4122	7.0000e-005	6.0000e-005	2.4330
<b>Total</b>	<b>1.1500e-003</b>	<b>5.9900e-003</b>	<b>9.7700e-003</b>	<b>5.0000e-005</b>	<b>3.8500e-003</b>	<b>5.0000e-005</b>	<b>3.8900e-003</b>	<b>1.0400e-003</b>	<b>4.0000e-005</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>4.6908</b>	<b>4.6908</b>	<b>8.0000e-005</b>	<b>4.1000e-004</b>	<b>4.8152</b>

**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	0.0169	0.1546	0.1859	3.1000e-004		7.0500e-003	7.0500e-003		6.6300e-003	6.6300e-003	0.0000	26.6626	26.6626	6.3000e-003	0.0000	26.8202
<b>Total</b>	<b>0.0169</b>	<b>0.1546</b>	<b>0.1859</b>	<b>3.1000e-004</b>		<b>7.0500e-003</b>	<b>7.0500e-003</b>		<b>6.6300e-003</b>	<b>6.6300e-003</b>	<b>0.0000</b>	<b>26.6626</b>	<b>26.6626</b>	<b>6.3000e-003</b>	<b>0.0000</b>	<b>26.8202</b>

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

**3.4 Building Construction - 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	1.3000e-004	5.3600e-003	1.6500e-003	2.0000e-005	8.0000e-004	3.0000e-005	8.3000e-004	2.3000e-004	3.0000e-005	2.6000e-004	0.0000	2.2787	2.2787	1.0000e-005	3.5000e-004	2.3822
Worker	1.0200e-003	6.3000e-004	8.1200e-003	3.0000e-005	3.0500e-003	2.0000e-005	3.0600e-003	8.1000e-004	1.0000e-005	8.2000e-004	0.0000	2.4122	2.4122	7.0000e-005	6.0000e-005	2.4330
<b>Total</b>	<b>1.1500e-003</b>	<b>5.9900e-003</b>	<b>9.7700e-003</b>	<b>5.0000e-005</b>	<b>3.8500e-003</b>	<b>5.0000e-005</b>	<b>3.8900e-003</b>	<b>1.0400e-003</b>	<b>4.0000e-005</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>4.6908</b>	<b>4.6908</b>	<b>8.0000e-005</b>	<b>4.1000e-004</b>	<b>4.8152</b>

**3.5 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2770					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0191	0.1317	0.1696	2.8000e-004		7.6400e-003	7.6400e-003		7.6400e-003	7.6400e-003	0.0000	23.8729	23.8729	1.5500e-003	0.0000	23.9118
<b>Total</b>	<b>0.2961</b>	<b>0.1317</b>	<b>0.1696</b>	<b>2.8000e-004</b>		<b>7.6400e-003</b>	<b>7.6400e-003</b>		<b>7.6400e-003</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>23.8729</b>	<b>23.8729</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>23.9118</b>

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

**3.5 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	1.8800e-003	1.2700e-003	0.0149	4.0000e-005	4.8200e-003	3.0000e-005	4.8400e-003	1.2800e-003	2.0000e-005	1.3100e-003	0.0000	4.0178	4.0178	1.3000e-004	1.2000e-004	4.0560
<b>Total</b>	<b>1.8800e-003</b>	<b>1.2700e-003</b>	<b>0.0149</b>	<b>4.0000e-005</b>	<b>4.8200e-003</b>	<b>3.0000e-005</b>	<b>4.8400e-003</b>	<b>1.2800e-003</b>	<b>2.0000e-005</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.0178</b>	<b>4.0178</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>4.0560</b>

**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	0.2770					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0191	0.1317	0.1696	2.8000e-004		7.6400e-003	7.6400e-003		7.6400e-003	7.6400e-003	0.0000	23.8729	23.8729	1.5500e-003	0.0000	23.9118
<b>Total</b>	<b>0.2961</b>	<b>0.1317</b>	<b>0.1696</b>	<b>2.8000e-004</b>		<b>7.6400e-003</b>	<b>7.6400e-003</b>		<b>7.6400e-003</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>23.8729</b>	<b>23.8729</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>23.9118</b>

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

**3.5 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	1.8800e-003	1.2700e-003	0.0149	4.0000e-005	4.8200e-003	3.0000e-005	4.8400e-003	1.2800e-003	2.0000e-005	1.3100e-003	0.0000	4.0178	4.0178	1.3000e-004	1.2000e-004	4.0560
<b>Total</b>	<b>1.8800e-003</b>	<b>1.2700e-003</b>	<b>0.0149</b>	<b>4.0000e-005</b>	<b>4.8200e-003</b>	<b>3.0000e-005</b>	<b>4.8400e-003</b>	<b>1.2800e-003</b>	<b>2.0000e-005</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.0178</b>	<b>4.0178</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>4.0560</b>

**3.5 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	0.3851					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
<b>Total</b>	<b>0.4100</b>	<b>0.1694</b>	<b>0.2355</b>	<b>3.9000e-004</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>33.2419</b>

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**3.5 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	2.4200e-003	1.5600e-003	0.0191	6.0000e-005	6.7000e-003	4.0000e-005	6.7300e-003	1.7800e-003	3.0000e-005	1.8100e-003	0.0000	5.4399	5.4399	1.6000e-004	1.5000e-004	5.4891
<b>Total</b>	<b>2.4200e-003</b>	<b>1.5600e-003</b>	<b>0.0191</b>	<b>6.0000e-005</b>	<b>6.7000e-003</b>	<b>4.0000e-005</b>	<b>6.7300e-003</b>	<b>1.7800e-003</b>	<b>3.0000e-005</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>5.4399</b>	<b>5.4399</b>	<b>1.6000e-004</b>	<b>1.5000e-004</b>	<b>5.4891</b>

**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	0.3851					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2354	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
<b>Total</b>	<b>0.4100</b>	<b>0.1694</b>	<b>0.2354</b>	<b>3.9000e-004</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>33.2419</b>

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

**3.5 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	2.4200e-003	1.5600e-003	0.0191	6.0000e-005	6.7000e-003	4.0000e-005	6.7300e-003	1.7800e-003	3.0000e-005	1.8100e-003	0.0000	5.4399	5.4399	1.6000e-004	1.5000e-004	5.4891
<b>Total</b>	<b>2.4200e-003</b>	<b>1.5600e-003</b>	<b>0.0191</b>	<b>6.0000e-005</b>	<b>6.7000e-003</b>	<b>4.0000e-005</b>	<b>6.7300e-003</b>	<b>1.7800e-003</b>	<b>3.0000e-005</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>5.4399</b>	<b>5.4399</b>	<b>1.6000e-004</b>	<b>1.5000e-004</b>	<b>5.4891</b>

**3.5 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	0.0489					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9800e-003	0.0201	0.0299	5.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	4.2129	4.2129	2.4000e-004	0.0000	4.2188
<b>Total</b>	<b>0.0519</b>	<b>0.0201</b>	<b>0.0299</b>	<b>5.0000e-005</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>4.2129</b>	<b>4.2129</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>4.2188</b>

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

**3.5 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	2.9000e-004	1.8000e-004	2.2600e-003	1.0000e-005	8.5000e-004	0.0000	8.5000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.6730	0.6730	2.0000e-005	2.0000e-005	0.6788
<b>Total</b>	<b>2.9000e-004</b>	<b>1.8000e-004</b>	<b>2.2600e-003</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>8.5000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.6730</b>	<b>0.6730</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6788</b>

**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	0.0489					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9800e-003	0.0201	0.0299	5.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	4.2129	4.2129	2.4000e-004	0.0000	4.2188
<b>Total</b>	<b>0.0519</b>	<b>0.0201</b>	<b>0.0299</b>	<b>5.0000e-005</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>4.2129</b>	<b>4.2129</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>4.2188</b>



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

**3.5 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	2.9000e-004	1.8000e-004	2.2600e-003	1.0000e-005	8.5000e-004	0.0000	8.5000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.6730	0.6730	2.0000e-005	2.0000e-005	0.6788
<b>Total</b>	<b>2.9000e-004</b>	<b>1.8000e-004</b>	<b>2.2600e-003</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>8.5000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.6730</b>	<b>0.6730</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6788</b>

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

**4.0 Operational Detail - Mobile**

**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	0.2937	0.4516	2.7509	5.9100e-003	0.5782	5.1300e-003	0.5833	0.1548	4.8200e-003	0.1596	0.0000	556.0183	556.0183	0.0360	0.0304	565.9694
Unmitigated	0.2937	0.4516	2.7509	5.9100e-003	0.5782	5.1300e-003	0.5833	0.1548	4.8200e-003	0.1596	0.0000	556.0183	556.0183	0.0360	0.0304	565.9694

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	525.20	525.20	525.20	1,552,323	1,552,323
Total	525.20	525.20	525.20	1,552,323	1,552,323

**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
Single Family Housing	10.00	5.00	7.00	46.00	13.00	41.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Percent of Electricity Use Generated with Renewable 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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	73.2007	73.2007	0.0118	1.4400e-003	73.9245
NaturalGas Mitigated	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.5264	143.5264	2.7500e-003	2.6300e-003	144.3793
NaturalGas Unmitigated	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.5264	143.5264	2.7500e-003	2.6300e-003	144.3793

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**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	tons/yr										MT/yr					
Single Family Housing	2.68958e+006	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.5264	143.5264	2.7500e-003	2.6300e-003	144.3793
<b>Total</b>		<b>0.0145</b>	<b>0.1239</b>	<b>0.0527</b>	<b>7.9000e-004</b>		<b>0.0100</b>	<b>0.0100</b>		<b>0.0100</b>	<b>0.0100</b>	<b>0.0000</b>	<b>143.5264</b>	<b>143.5264</b>	<b>2.7500e-003</b>	<b>2.6300e-003</b>	<b>144.3793</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	tons/yr										MT/yr					
Single Family Housing	2.68958e+006	0.0145	0.1239	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.5264	143.5264	2.7500e-003	2.6300e-003	144.3793
<b>Total</b>		<b>0.0145</b>	<b>0.1239</b>	<b>0.0527</b>	<b>7.9000e-004</b>		<b>0.0100</b>	<b>0.0100</b>		<b>0.0100</b>	<b>0.0100</b>	<b>0.0000</b>	<b>143.5264</b>	<b>143.5264</b>	<b>2.7500e-003</b>	<b>2.6300e-003</b>	<b>144.3793</b>

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	791155	73.2007	0.0118	1.4400e-003	73.9245
<b>Total</b>		<b>73.2007</b>	<b>0.0118</b>	<b>1.4400e-003</b>	<b>73.9245</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

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**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
Category	tons/yr										MT/yr					
Mitigated	0.8037	8.6400e-003	0.7496	4.0000e-005		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	1.2250	1.2250	1.1800e-003	0.0000	1.2544
Unmitigated	0.8567	0.0165	1.2316	1.6100e-003		0.0828	0.0828		0.0828	0.0828	10.5278	1.2250	11.7528	0.0504	0.0000	13.0126

**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	0.0711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7100					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0531	7.8600e-003	0.4820	1.5700e-003		0.0786	0.0786		0.0786	0.0786	10.5278	0.0000	10.5278	0.0492	0.0000	11.7582
Landscaping	0.0225	8.6400e-003	0.7496	4.0000e-005		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	1.2250	1.2250	1.1800e-003	0.0000	1.2544
<b>Total</b>	<b>0.8567</b>	<b>0.0165</b>	<b>1.2316</b>	<b>1.6100e-003</b>		<b>0.0828</b>	<b>0.0828</b>		<b>0.0828</b>	<b>0.0828</b>	<b>10.5278</b>	<b>1.2250</b>	<b>11.7528</b>	<b>0.0504</b>	<b>0.0000</b>	<b>13.0126</b>

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**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	tons/yr										MT/yr					
Architectural Coating	0.0711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7100					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	0.0225	8.6400e-003	0.7496	4.0000e-005		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	1.2250	1.2250	1.1800e-003	0.0000	1.2544
<b>Total</b>	<b>0.8037</b>	<b>8.6400e-003</b>	<b>0.7496</b>	<b>4.0000e-005</b>		<b>4.1500e-003</b>	<b>4.1500e-003</b>		<b>4.1500e-003</b>	<b>4.1500e-003</b>	<b>0.0000</b>	<b>1.2250</b>	<b>1.2250</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.2544</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.4570	0.2151	5.1500e-003	13.3697
Unmitigated	6.7257	0.2152	5.1500e-003	13.6411

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	6.58056 / 4.14861	6.7257	0.2152	5.1500e-003	13.6411
<b>Total</b>		<b>6.7257</b>	<b>0.2152</b>	<b>5.1500e-003</b>	<b>13.6411</b>



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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	6.58056 / 3.31889	6.4570	0.2151	5.1500e-003	13.3697
<b>Total</b>		<b>6.4570</b>	<b>0.2151</b>	<b>5.1500e-003</b>	<b>13.3697</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.8791	1.3521	0.0000	56.6820
Unmitigated	22.8791	1.3521	0.0000	56.6820

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

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	112.71	22.8791	1.3521	0.0000	56.6820
<b>Total</b>		<b>22.8791</b>	<b>1.3521</b>	<b>0.0000</b>	<b>56.6820</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	112.71	22.8791	1.3521	0.0000	56.6820
<b>Total</b>		<b>22.8791</b>	<b>1.3521</b>	<b>0.0000</b>	<b>56.6820</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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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Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**Lincoln Square Project - Residential  
Yolo/Solano AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	101.00	Dwelling Unit	11.00	181,800.00	289

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	55
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<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 - Lot acreage adjusted based on site plan and applicant-provided AQ Questionnaire.

Construction Phase - Construction phase timing adjusted based on applicant-provided AQ Questionnaire.

Trips and VMT - Site prep and grading phase haul trip lengths adjusted per applicant-provided information.

Grading -

Vehicle Trips - Trip generation rate adjusted to be consistent with info provided by project-specific traffic consultant (Urban Crossroads)

Woodstoves - Per applicant-provided information, no fireplaces.

Mobile Land Use Mitigation -

Energy Mitigation - 100 percent of electricity generated on-site, pursuant to 2019 CBSC for single-family homes.

Water Mitigation - Outdoor water conservation strategy applied compliance with MWELO.

Stationary Sources - Emergency Generators and Fire Pumps -

Area Mitigation -

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	480.00
tblConstructionPhase	NumDays	300.00	480.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	20.00	2.00
tblFireplaces	NumberNoFireplace	69.69	101.00
tblFireplaces	NumberWood	31.31	0.00
tblLandUse	LotAcreage	32.79	11.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	9.54	5.20
tblVehicleTrips	SU_TR	8.55	5.20
tblVehicleTrips	WD_TR	9.44	5.20

**2.0 Emissions Summary**

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Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**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					
2022	5.0346	38.8785	29.5592	0.0635	9.3557	1.6357	10.9914	3.6941	1.5049	5.1990	0.0000	6,158.728 3	6,158.728 3	1.9484	0.0430	6,208.538 8
2023	4.8703	16.1975	19.2258	0.0350	0.3986	0.7751	1.1736	0.1073	0.7335	0.8408	0.0000	3,367.417 6	3,367.417 6	0.6334	0.0412	3,395.525 3
2024	4.7486	15.1641	19.0732	0.0349	0.3986	0.6787	1.0772	0.1073	0.6420	0.7493	0.0000	3,355.857 1	3,355.857 1	0.6281	0.0401	3,383.499 8
<b>Maximum</b>	<b>5.0346</b>	<b>38.8785</b>	<b>29.5592</b>	<b>0.0635</b>	<b>9.3557</b>	<b>1.6357</b>	<b>10.9914</b>	<b>3.6941</b>	<b>1.5049</b>	<b>5.1990</b>	<b>0.0000</b>	<b>6,158.728 3</b>	<b>6,158.728 3</b>	<b>1.9484</b>	<b>0.0430</b>	<b>6,208.538 8</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.0346	38.8785	29.5592	0.0635	9.3557	1.6357	10.9914	3.6941	1.5049	5.1990	0.0000	6,158.728 3	6,158.728 3	1.9484	0.0430	6,208.538 8
2023	4.8703	16.1975	19.2258	0.0350	0.3986	0.7751	1.1736	0.1073	0.7335	0.8408	0.0000	3,367.417 6	3,367.417 6	0.6334	0.0412	3,395.525 3
2024	4.7486	15.1641	19.0732	0.0349	0.3986	0.6787	1.0772	0.1073	0.6420	0.7493	0.0000	3,355.857 1	3,355.857 1	0.6281	0.0401	3,383.499 8
<b>Maximum</b>	<b>5.0346</b>	<b>38.8785</b>	<b>29.5592</b>	<b>0.0635</b>	<b>9.3557</b>	<b>1.6357</b>	<b>10.9914</b>	<b>3.6941</b>	<b>1.5049</b>	<b>5.1990</b>	<b>0.0000</b>	<b>6,158.728 3</b>	<b>6,158.728 3</b>	<b>1.9484</b>	<b>0.0430</b>	<b>6,208.538 8</b>



Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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	5.8250	0.2877	20.0844	0.0388		1.9638	1.9638		1.9638	1.9638	283.0464	15.0038	298.0502	1.3376	0.0000	331.4897
Energy	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
Mobile	1.8904	2.2855	15.8593	0.0346	3.2832	0.0282	3.3114	0.8765	0.0265	0.9030		3,582.2343	3,582.2343	0.2084	0.1771	3,640.2193
<b>Total</b>	<b>7.7949</b>	<b>3.2523</b>	<b>36.2326</b>	<b>0.0777</b>	<b>3.2832</b>	<b>2.0470</b>	<b>5.3301</b>	<b>0.8765</b>	<b>2.0452</b>	<b>2.9217</b>	<b>283.0464</b>	<b>4,464.1465</b>	<b>4,747.1929</b>	<b>1.5626</b>	<b>0.1930</b>	<b>4,843.7691</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	4.5305	0.0960	8.3291	4.4000e-004		0.0462	0.0462		0.0462	0.0462	0.0000	15.0038	15.0038	0.0144	0.0000	15.3637
Energy	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
Mobile	1.8904	2.2855	15.8593	0.0346	3.2832	0.0282	3.3114	0.8765	0.0265	0.9030		3,582.2343	3,582.2343	0.2084	0.1771	3,640.2193
<b>Total</b>	<b>6.5005</b>	<b>3.0605</b>	<b>24.4774</b>	<b>0.0393</b>	<b>3.2832</b>	<b>0.1293</b>	<b>3.4125</b>	<b>0.8765</b>	<b>0.1276</b>	<b>1.0040</b>	<b>0.0000</b>	<b>4,464.1465</b>	<b>4,464.1465</b>	<b>0.2394</b>	<b>0.1930</b>	<b>4,527.6431</b>



Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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	16.61	5.90	32.44	49.36	0.00	93.68	35.98	0.00	93.76	65.64	100.00	0.00	5.96	84.68	0.00	6.53

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	3/1/2022	3/28/2022	5	20	
2	Paving	Paving	3/29/2022	3/30/2022	5	2	
3	Building Construction	Building Construction	3/31/2022	1/31/2024	5	480	
4	Architectural Coating	Architectural Coating	4/14/2022	2/14/2024	5	480	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 0**

**Residential Indoor: 368,145; Residential Outdoor: 122,715; 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
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

Paving	Rollers	2	8.00	80	0.38
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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
Grading	8	20.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	36.00	11.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.2 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**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	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
Worker	0.0662	0.0350	0.5176	1.4500e-003	0.1521	8.2000e-004	0.1530	0.0404	7.5000e-004	0.0411		147.3178	147.3178	4.1700e-003	3.6900e-003	148.5230
<b>Total</b>	<b>0.0662</b>	<b>0.0350</b>	<b>0.5176</b>	<b>1.4500e-003</b>	<b>0.1521</b>	<b>8.2000e-004</b>	<b>0.1530</b>	<b>0.0404</b>	<b>7.5000e-004</b>	<b>0.0411</b>		<b>147.3178</b>	<b>147.3178</b>	<b>4.1700e-003</b>	<b>3.6900e-003</b>	<b>148.5230</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.2 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</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
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
Worker	0.0662	0.0350	0.5176	1.4500e-003	0.1521	8.2000e-004	0.1530	0.0404	7.5000e-004	0.0411		147.3178	147.3178	4.1700e-003	3.6900e-003	148.5230
<b>Total</b>	<b>0.0662</b>	<b>0.0350</b>	<b>0.5176</b>	<b>1.4500e-003</b>	<b>0.1521</b>	<b>8.2000e-004</b>	<b>0.1530</b>	<b>0.0404</b>	<b>7.5000e-004</b>	<b>0.0411</b>		<b>147.3178</b>	<b>147.3178</b>	<b>4.1700e-003</b>	<b>3.6900e-003</b>	<b>148.5230</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.3 Paving - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

**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	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
Worker	0.0496	0.0262	0.3882	1.0900e-003	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		110.4883	110.4883	3.1300e-003	2.7700e-003	111.3922
<b>Total</b>	<b>0.0496</b>	<b>0.0262</b>	<b>0.3882</b>	<b>1.0900e-003</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>110.4883</b>	<b>110.4883</b>	<b>3.1300e-003</b>	<b>2.7700e-003</b>	<b>111.3922</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.3 Paving - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</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
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
Worker	0.0496	0.0262	0.3882	1.0900e-003	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		110.4883	110.4883	3.1300e-003	2.7700e-003	111.3922
<b>Total</b>	<b>0.0496</b>	<b>0.0262</b>	<b>0.3882</b>	<b>1.0900e-003</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>110.4883</b>	<b>110.4883</b>	<b>3.1300e-003</b>	<b>2.7700e-003</b>	<b>111.3922</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.4 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**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	0.0000
Vendor	0.0192	0.5183	0.1591	2.1800e-003	0.0715	5.0200e-003	0.0765	0.0206	4.8000e-003	0.0254		230.2083	230.2083	1.0100e-003	0.0350	240.6659
Worker	0.1191	0.0630	0.9318	2.6100e-003	0.2739	1.4700e-003	0.2753	0.0726	1.3500e-003	0.0740		265.1720	265.1720	7.5100e-003	6.6500e-003	267.3414
<b>Total</b>	<b>0.1382</b>	<b>0.5813</b>	<b>1.0908</b>	<b>4.7900e-003</b>	<b>0.3453</b>	<b>6.4900e-003</b>	<b>0.3518</b>	<b>0.0932</b>	<b>6.1500e-003</b>	<b>0.0994</b>		<b>495.3803</b>	<b>495.3803</b>	<b>8.5200e-003</b>	<b>0.0417</b>	<b>508.0073</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.4 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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
Vendor	0.0192	0.5183	0.1591	2.1800e-003	0.0715	5.0200e-003	0.0765	0.0206	4.8000e-003	0.0254		230.2083	230.2083	1.0100e-003	0.0350	240.6659
Worker	0.1191	0.0630	0.9318	2.6100e-003	0.2739	1.4700e-003	0.2753	0.0726	1.3500e-003	0.0740		265.1720	265.1720	7.5100e-003	6.6500e-003	267.3414
<b>Total</b>	<b>0.1382</b>	<b>0.5813</b>	<b>1.0908</b>	<b>4.7900e-003</b>	<b>0.3453</b>	<b>6.4900e-003</b>	<b>0.3518</b>	<b>0.0932</b>	<b>6.1500e-003</b>	<b>0.0994</b>		<b>495.3803</b>	<b>495.3803</b>	<b>8.5200e-003</b>	<b>0.0417</b>	<b>508.0073</b>



Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.4 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
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**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	0.0000
Vendor	0.0118	0.4431	0.1442	2.1000e-003	0.0715	2.8500e-003	0.0743	0.0206	2.7200e-003	0.0233		222.3956	222.3956	6.5000e-004	0.0338	232.4904
Worker	0.1102	0.0557	0.8594	2.5200e-003	0.2739	1.3900e-003	0.2752	0.0726	1.2800e-003	0.0739		258.1652	258.1652	6.7700e-003	6.1600e-003	260.1711
<b>Total</b>	<b>0.1220</b>	<b>0.4988</b>	<b>1.0036</b>	<b>4.6200e-003</b>	<b>0.3453</b>	<b>4.2400e-003</b>	<b>0.3496</b>	<b>0.0932</b>	<b>4.0000e-003</b>	<b>0.0972</b>		<b>480.5608</b>	<b>480.5608</b>	<b>7.4200e-003</b>	<b>0.0400</b>	<b>492.6614</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.4 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
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</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
Vendor	0.0118	0.4431	0.1442	2.1000e-003	0.0715	2.8500e-003	0.0743	0.0206	2.7200e-003	0.0233		222.3956	222.3956	6.5000e-004	0.0338	232.4904
Worker	0.1102	0.0557	0.8594	2.5200e-003	0.2739	1.3900e-003	0.2752	0.0726	1.2800e-003	0.0739		258.1652	258.1652	6.7700e-003	6.1600e-003	260.1711
<b>Total</b>	<b>0.1220</b>	<b>0.4988</b>	<b>1.0036</b>	<b>4.6200e-003</b>	<b>0.3453</b>	<b>4.2400e-003</b>	<b>0.3496</b>	<b>0.0932</b>	<b>4.0000e-003</b>	<b>0.0972</b>		<b>480.5608</b>	<b>480.5608</b>	<b>7.4200e-003</b>	<b>0.0400</b>	<b>492.6614</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.4 Building Construction - 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					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**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	0.0000
Vendor	0.0115	0.4423	0.1411	2.0600e-003	0.0715	2.8500e-003	0.0743	0.0206	2.7300e-003	0.0233		218.2156	218.2156	6.2000e-004	0.0332	228.1267
Worker	0.1024	0.0496	0.7996	2.4400e-003	0.2739	1.3200e-003	0.2752	0.0726	1.2200e-003	0.0739		251.5768	251.5768	6.1200e-003	5.7400e-003	253.4410
<b>Total</b>	<b>0.1139</b>	<b>0.4919</b>	<b>0.9407</b>	<b>4.5000e-003</b>	<b>0.3453</b>	<b>4.1700e-003</b>	<b>0.3495</b>	<b>0.0932</b>	<b>3.9500e-003</b>	<b>0.0972</b>		<b>469.7924</b>	<b>469.7924</b>	<b>6.7400e-003</b>	<b>0.0390</b>	<b>481.5677</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.4 Building Construction - 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					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</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
Vendor	0.0115	0.4423	0.1411	2.0600e-003	0.0715	2.8500e-003	0.0743	0.0206	2.7300e-003	0.0233		218.2156	218.2156	6.2000e-004	0.0332	228.1267
Worker	0.1024	0.0496	0.7996	2.4400e-003	0.2739	1.3200e-003	0.2752	0.0726	1.2200e-003	0.0739		251.5768	251.5768	6.1200e-003	5.7400e-003	253.4410
<b>Total</b>	<b>0.1139</b>	<b>0.4919</b>	<b>0.9407</b>	<b>4.5000e-003</b>	<b>0.3453</b>	<b>4.1700e-003</b>	<b>0.3495</b>	<b>0.0932</b>	<b>3.9500e-003</b>	<b>0.0972</b>		<b>469.7924</b>	<b>469.7924</b>	<b>6.7400e-003</b>	<b>0.0390</b>	<b>481.5677</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.5 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.9624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>3.1670</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	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
Worker	0.0232	0.0122	0.1812	5.1000e-004	0.0533	2.9000e-004	0.0535	0.0141	2.6000e-004	0.0144		51.5612	51.5612	1.4600e-003	1.2900e-003	51.9830
<b>Total</b>	<b>0.0232</b>	<b>0.0122</b>	<b>0.1812</b>	<b>5.1000e-004</b>	<b>0.0533</b>	<b>2.9000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.6000e-004</b>	<b>0.0144</b>		<b>51.5612</b>	<b>51.5612</b>	<b>1.4600e-003</b>	<b>1.2900e-003</b>	<b>51.9830</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.5 Architectural Coating - 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					
Archit. Coating	2.9624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>3.1670</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
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
Worker	0.0232	0.0122	0.1812	5.1000e-004	0.0533	2.9000e-004	0.0535	0.0141	2.6000e-004	0.0144		51.5612	51.5612	1.4600e-003	1.2900e-003	51.9830
<b>Total</b>	<b>0.0232</b>	<b>0.0122</b>	<b>0.1812</b>	<b>5.1000e-004</b>	<b>0.0533</b>	<b>2.9000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.6000e-004</b>	<b>0.0144</b>		<b>51.5612</b>	<b>51.5612</b>	<b>1.4600e-003</b>	<b>1.2900e-003</b>	<b>51.9830</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.5 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	2.9624					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
<b>Total</b>	<b>3.1541</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**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	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
Worker	0.0214	0.0108	0.1671	4.9000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		50.1988	50.1988	1.3200e-003	1.2000e-003	50.5888
<b>Total</b>	<b>0.0214</b>	<b>0.0108</b>	<b>0.1671</b>	<b>4.9000e-004</b>	<b>0.0533</b>	<b>2.7000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.5000e-004</b>	<b>0.0144</b>		<b>50.1988</b>	<b>50.1988</b>	<b>1.3200e-003</b>	<b>1.2000e-003</b>	<b>50.5888</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.5 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	2.9624					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
<b>Total</b>	<b>3.1541</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</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
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
Worker	0.0214	0.0108	0.1671	4.9000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		50.1988	50.1988	1.3200e-003	1.2000e-003	50.5888
<b>Total</b>	<b>0.0214</b>	<b>0.0108</b>	<b>0.1671</b>	<b>4.9000e-004</b>	<b>0.0533</b>	<b>2.7000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.5000e-004</b>	<b>0.0144</b>		<b>50.1988</b>	<b>50.1988</b>	<b>1.3200e-003</b>	<b>1.2000e-003</b>	<b>50.5888</b>



Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.5 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	2.9624					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
<b>Total</b>	<b>3.1432</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**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	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
Worker	0.0199	9.6500e-003	0.1555	4.7000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		48.9177	48.9177	1.1900e-003	1.1200e-003	49.2802
<b>Total</b>	<b>0.0199</b>	<b>9.6500e-003</b>	<b>0.1555</b>	<b>4.7000e-004</b>	<b>0.0533</b>	<b>2.6000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.4000e-004</b>	<b>0.0144</b>		<b>48.9177</b>	<b>48.9177</b>	<b>1.1900e-003</b>	<b>1.1200e-003</b>	<b>49.2802</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**3.5 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	2.9624					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
<b>Total</b>	<b>3.1432</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</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
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
Worker	0.0199	9.6500e-003	0.1555	4.7000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		48.9177	48.9177	1.1900e-003	1.1200e-003	49.2802
<b>Total</b>	<b>0.0199</b>	<b>9.6500e-003</b>	<b>0.1555</b>	<b>4.7000e-004</b>	<b>0.0533</b>	<b>2.6000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.4000e-004</b>	<b>0.0144</b>		<b>48.9177</b>	<b>48.9177</b>	<b>1.1900e-003</b>	<b>1.1200e-003</b>	<b>49.2802</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**4.0 Operational Detail - Mobile**

**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	1.8904	2.2855	15.8593	0.0346	3.2832	0.0282	3.3114	0.8765	0.0265	0.9030		3,582.234 3	3,582.234 3	0.2084	0.1771	3,640.219 3
Unmitigated	1.8904	2.2855	15.8593	0.0346	3.2832	0.0282	3.3114	0.8765	0.0265	0.9030		3,582.234 3	3,582.234 3	0.2084	0.1771	3,640.219 3

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	525.20	525.20	525.20	1,552,323	1,552,323
Total	525.20	525.20	525.20	1,552,323	1,552,323

**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
Single Family Housing	10.00	5.00	7.00	46.00	13.00	41.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Summer

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Percent of Electricity Use Generated with Renewable 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	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
NaturalGas Unmitigated	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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					
Single Family Housing	7368.72	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
<b>Total</b>		<b>0.0795</b>	<b>0.6791</b>	<b>0.2890</b>	<b>4.3300e-003</b>		<b>0.0549</b>	<b>0.0549</b>		<b>0.0549</b>	<b>0.0549</b>		<b>866.9085</b>	<b>866.9085</b>	<b>0.0166</b>	<b>0.0159</b>	<b>872.0601</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					
Single Family Housing	7.36872	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
<b>Total</b>		<b>0.0795</b>	<b>0.6791</b>	<b>0.2890</b>	<b>4.3300e-003</b>		<b>0.0549</b>	<b>0.0549</b>		<b>0.0549</b>	<b>0.0549</b>		<b>866.9085</b>	<b>866.9085</b>	<b>0.0166</b>	<b>0.0159</b>	<b>872.0601</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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
Category	lb/day										lb/day					
Mitigated	4.5305	0.0960	8.3291	4.4000e-004		0.0462	0.0462		0.0462	0.0462	0.0000	15.0038	15.0038	0.0144	0.0000	15.3637
Unmitigated	5.8250	0.2877	20.0844	0.0388		1.9638	1.9638		1.9638	1.9638	283.0464	15.0038	298.0502	1.3376	0.0000	331.4897

**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	0.3896					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.2944	0.1918	11.7553	0.0384		1.9177	1.9177		1.9177	1.9177	283.0464	0.0000	283.0464	1.3232	0.0000	316.1260
Landscaping	0.2504	0.0960	8.3291	4.4000e-004		0.0462	0.0462		0.0462	0.0462		15.0038	15.0038	0.0144		15.3637
<b>Total</b>	<b>5.8250</b>	<b>0.2877</b>	<b>20.0844</b>	<b>0.0388</b>		<b>1.9638</b>	<b>1.9638</b>		<b>1.9638</b>	<b>1.9638</b>	<b>283.0464</b>	<b>15.0038</b>	<b>298.0502</b>	<b>1.3376</b>	<b>0.0000</b>	<b>331.4897</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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	0.3896					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8905					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	0.2504	0.0960	8.3291	4.4000e-004		0.0462	0.0462		0.0462	0.0462		15.0038	15.0038	0.0144		15.3637
<b>Total</b>	<b>4.5305</b>	<b>0.0960</b>	<b>8.3291</b>	<b>4.4000e-004</b>		<b>0.0462</b>	<b>0.0462</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>15.0038</b>	<b>15.0038</b>	<b>0.0144</b>	<b>0.0000</b>	<b>15.3637</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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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Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**Lincoln Square Project - Residential**

**Yolo/Solano AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	101.00	Dwelling Unit	11.00	181,800.00	289

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	55
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<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 - Lot acreage adjusted based on site plan and applicant-provided AQ Questionnaire.

Construction Phase - Construction phase timing adjusted based on applicant-provided AQ Questionnaire.

Trips and VMT - Site prep and grading phase haul trip lengths adjusted per applicant-provided information.

Grading -

Vehicle Trips - Trip generation rate adjusted to be consistent with info provided by project-specific traffic consultant (Urban Crossroads)

Woodstoves - Per applicant-provided information, no fireplaces.

Mobile Land Use Mitigation -

Energy Mitigation - 100 percent of electricity generated on-site, pursuant to 2019 CBSC for single-family homes.

Water Mitigation - Outdoor water conservation strategy applied compliance with MWELO.

Stationary Sources - Emergency Generators and Fire Pumps -

Area Mitigation -

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	480.00
tblConstructionPhase	NumDays	300.00	480.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	20.00	2.00
tblFireplaces	NumberNoFireplace	69.69	101.00
tblFireplaces	NumberWood	31.31	0.00
tblLandUse	LotAcreage	32.79	11.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	9.54	5.20
tblVehicleTrips	SU_TR	8.55	5.20
tblVehicleTrips	WD_TR	9.44	5.20

**2.0 Emissions Summary**

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Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**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					
2022	5.0209	38.8873	29.5103	0.0634	9.3557	1.6357	10.9914	3.6941	1.5049	5.1990	0.0000	6,143.710 3	6,143.710 3	1.9491	0.0443	6,193.715 5
2023	4.8577	16.2498	19.1385	0.0347	0.3986	0.7751	1.1736	0.1073	0.7335	0.8408	0.0000	3,336.546 6	3,336.546 6	0.6348	0.0425	3,365.069 4
2024	4.7371	15.2145	18.9962	0.0346	0.3986	0.6787	1.0772	0.1073	0.6420	0.7494	0.0000	3,325.848 9	3,325.848 9	0.6294	0.0413	3,353.877 7
<b>Maximum</b>	<b>5.0209</b>	<b>38.8873</b>	<b>29.5103</b>	<b>0.0634</b>	<b>9.3557</b>	<b>1.6357</b>	<b>10.9914</b>	<b>3.6941</b>	<b>1.5049</b>	<b>5.1990</b>	<b>0.0000</b>	<b>6,143.710 3</b>	<b>6,143.710 3</b>	<b>1.9491</b>	<b>0.0443</b>	<b>6,193.715 5</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.0209	38.8873	29.5103	0.0634	9.3557	1.6357	10.9914	3.6941	1.5049	5.1990	0.0000	6,143.710 3	6,143.710 3	1.9491	0.0443	6,193.715 5
2023	4.8577	16.2498	19.1385	0.0347	0.3986	0.7751	1.1736	0.1073	0.7335	0.8408	0.0000	3,336.546 6	3,336.546 6	0.6348	0.0425	3,365.069 4
2024	4.7371	15.2145	18.9962	0.0346	0.3986	0.6787	1.0772	0.1073	0.6420	0.7494	0.0000	3,325.848 9	3,325.848 9	0.6294	0.0413	3,353.877 7
<b>Maximum</b>	<b>5.0209</b>	<b>38.8873</b>	<b>29.5103</b>	<b>0.0634</b>	<b>9.3557</b>	<b>1.6357</b>	<b>10.9914</b>	<b>3.6941</b>	<b>1.5049</b>	<b>5.1990</b>	<b>0.0000</b>	<b>6,143.710 3</b>	<b>6,143.710 3</b>	<b>1.9491</b>	<b>0.0443</b>	<b>6,193.715 5</b>



Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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	5.8250	0.2877	20.0844	0.0388		1.9638	1.9638		1.9638	1.9638	283.0464	15.0038	298.0502	1.3376	0.0000	331.4897
Energy	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
Mobile	1.5923	2.6351	16.3725	0.0320	3.2832	0.0283	3.3114	0.8765	0.0265	0.9030		3,320.2435	3,320.2435	0.2350	0.1917	3,383.2454
<b>Total</b>	<b>7.4967</b>	<b>3.6019</b>	<b>36.7459</b>	<b>0.0752</b>	<b>3.2832</b>	<b>2.0470</b>	<b>5.3301</b>	<b>0.8765</b>	<b>2.0452</b>	<b>2.9217</b>	<b>283.0464</b>	<b>4,202.1557</b>	<b>4,485.2021</b>	<b>1.5892</b>	<b>0.2076</b>	<b>4,586.7952</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	4.5305	0.0960	8.3291	4.4000e-004		0.0462	0.0462		0.0462	0.0462	0.0000	15.0038	15.0038	0.0144	0.0000	15.3637
Energy	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
Mobile	1.5923	2.6351	16.3725	0.0320	3.2832	0.0283	3.3114	0.8765	0.0265	0.9030		3,320.2435	3,320.2435	0.2350	0.1917	3,383.2454
<b>Total</b>	<b>6.2023</b>	<b>3.4102</b>	<b>24.9906</b>	<b>0.0368</b>	<b>3.2832</b>	<b>0.1293</b>	<b>3.4125</b>	<b>0.8765</b>	<b>0.1276</b>	<b>1.0040</b>	<b>0.0000</b>	<b>4,202.1557</b>	<b>4,202.1557</b>	<b>0.2660</b>	<b>0.2076</b>	<b>4,270.6692</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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	17.27	5.32	31.99	51.02	0.00	93.68	35.98	0.00	93.76	65.64	100.00	0.00	6.31	83.26	0.00	6.89

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	3/1/2022	3/28/2022	5	20	
2	Paving	Paving	3/29/2022	3/30/2022	5	2	
3	Building Construction	Building Construction	3/31/2022	1/31/2024	5	480	
4	Architectural Coating	Architectural Coating	4/14/2022	2/14/2024	5	480	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 0**

**Residential Indoor: 368,145; Residential Outdoor: 122,715; 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
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

Paving	Rollers	2	8.00	80	0.38
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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
Grading	8	20.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	36.00	11.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.2 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**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	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
Worker	0.0601	0.0438	0.4687	1.3000e-003	0.1521	8.2000e-004	0.1530	0.0404	7.5000e-004	0.0411		132.2998	132.2998	4.8500e-003	4.2900e-003	133.6996
<b>Total</b>	<b>0.0601</b>	<b>0.0438</b>	<b>0.4687</b>	<b>1.3000e-003</b>	<b>0.1521</b>	<b>8.2000e-004</b>	<b>0.1530</b>	<b>0.0404</b>	<b>7.5000e-004</b>	<b>0.0411</b>		<b>132.2998</b>	<b>132.2998</b>	<b>4.8500e-003</b>	<b>4.2900e-003</b>	<b>133.6996</b>



Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.2 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</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
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
Worker	0.0601	0.0438	0.4687	1.3000e-003	0.1521	8.2000e-004	0.1530	0.0404	7.5000e-004	0.0411		132.2998	132.2998	4.8500e-003	4.2900e-003	133.6996
<b>Total</b>	<b>0.0601</b>	<b>0.0438</b>	<b>0.4687</b>	<b>1.3000e-003</b>	<b>0.1521</b>	<b>8.2000e-004</b>	<b>0.1530</b>	<b>0.0404</b>	<b>7.5000e-004</b>	<b>0.0411</b>		<b>132.2998</b>	<b>132.2998</b>	<b>4.8500e-003</b>	<b>4.2900e-003</b>	<b>133.6996</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.3 Paving - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</b>

**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	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
Worker	0.0451	0.0328	0.3516	9.8000e-004	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		99.2249	99.2249	3.6400e-003	3.2200e-003	100.2747
<b>Total</b>	<b>0.0451</b>	<b>0.0328</b>	<b>0.3516</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>99.2249</b>	<b>99.2249</b>	<b>3.6400e-003</b>	<b>3.2200e-003</b>	<b>100.2747</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.3 Paving - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</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
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
Worker	0.0451	0.0328	0.3516	9.8000e-004	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		99.2249	99.2249	3.6400e-003	3.2200e-003	100.2747
<b>Total</b>	<b>0.0451</b>	<b>0.0328</b>	<b>0.3516</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>99.2249</b>	<b>99.2249</b>	<b>3.6400e-003</b>	<b>3.2200e-003</b>	<b>100.2747</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.4 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**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	0.0000
Vendor	0.0184	0.5586	0.1648	2.1800e-003	0.0715	5.0400e-003	0.0765	0.0206	4.8200e-003	0.0254		230.4787	230.4787	9.7000e-004	0.0351	240.9564
Worker	0.1083	0.0788	0.8437	2.3400e-003	0.2739	1.4700e-003	0.2753	0.0726	1.3500e-003	0.0740		238.1396	238.1396	8.7400e-003	7.7200e-003	240.6593
<b>Total</b>	<b>0.1267</b>	<b>0.6374</b>	<b>1.0086</b>	<b>4.5200e-003</b>	<b>0.3453</b>	<b>6.5100e-003</b>	<b>0.3518</b>	<b>0.0932</b>	<b>6.1700e-003</b>	<b>0.0994</b>		<b>468.6183</b>	<b>468.6183</b>	<b>9.7100e-003</b>	<b>0.0428</b>	<b>481.6157</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.4 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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
Vendor	0.0184	0.5586	0.1648	2.1800e-003	0.0715	5.0400e-003	0.0765	0.0206	4.8200e-003	0.0254		230.4787	230.4787	9.7000e-004	0.0351	240.9564
Worker	0.1083	0.0788	0.8437	2.3400e-003	0.2739	1.4700e-003	0.2753	0.0726	1.3500e-003	0.0740		238.1396	238.1396	8.7400e-003	7.7200e-003	240.6593
<b>Total</b>	<b>0.1267</b>	<b>0.6374</b>	<b>1.0086</b>	<b>4.5200e-003</b>	<b>0.3453</b>	<b>6.5100e-003</b>	<b>0.3518</b>	<b>0.0932</b>	<b>6.1700e-003</b>	<b>0.0994</b>		<b>468.6183</b>	<b>468.6183</b>	<b>9.7100e-003</b>	<b>0.0428</b>	<b>481.6157</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.4 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
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**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	0.0000
Vendor	0.0110	0.4788	0.1489	2.1100e-003	0.0715	2.8600e-003	0.0743	0.0206	2.7300e-003	0.0233		222.8815	222.8815	6.1000e-004	0.0339	233.0051
Worker	0.1004	0.0696	0.7823	2.2700e-003	0.2739	1.3900e-003	0.2752	0.0726	1.2800e-003	0.0739		231.9130	231.9130	7.9100e-003	7.1500e-003	234.2422
<b>Total</b>	<b>0.1114</b>	<b>0.5484</b>	<b>0.9313</b>	<b>4.3800e-003</b>	<b>0.3453</b>	<b>4.2500e-003</b>	<b>0.3496</b>	<b>0.0932</b>	<b>4.0100e-003</b>	<b>0.0972</b>		<b>454.7944</b>	<b>454.7944</b>	<b>8.5200e-003</b>	<b>0.0411</b>	<b>467.2473</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.4 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
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</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
Vendor	0.0110	0.4788	0.1489	2.1100e-003	0.0715	2.8600e-003	0.0743	0.0206	2.7300e-003	0.0233		222.8815	222.8815	6.1000e-004	0.0339	233.0051
Worker	0.1004	0.0696	0.7823	2.2700e-003	0.2739	1.3900e-003	0.2752	0.0726	1.2800e-003	0.0739		231.9130	231.9130	7.9100e-003	7.1500e-003	234.2422
<b>Total</b>	<b>0.1114</b>	<b>0.5484</b>	<b>0.9313</b>	<b>4.3800e-003</b>	<b>0.3453</b>	<b>4.2500e-003</b>	<b>0.3496</b>	<b>0.0932</b>	<b>4.0100e-003</b>	<b>0.0972</b>		<b>454.7944</b>	<b>454.7944</b>	<b>8.5200e-003</b>	<b>0.0411</b>	<b>467.2473</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.4 Building Construction - 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					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**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	0.0000
Vendor	0.0107	0.4779	0.1458	2.0700e-003	0.0715	2.8700e-003	0.0743	0.0206	2.7400e-003	0.0233		218.6967	218.6967	5.8000e-004	0.0333	228.6355
Worker	0.0935	0.0620	0.7313	2.1900e-003	0.2739	1.3200e-003	0.2752	0.0726	1.2200e-003	0.0739		226.0509	226.0509	7.1800e-003	6.6600e-003	228.2151
<b>Total</b>	<b>0.1041</b>	<b>0.5399</b>	<b>0.8770</b>	<b>4.2600e-003</b>	<b>0.3453</b>	<b>4.1900e-003</b>	<b>0.3495</b>	<b>0.0932</b>	<b>3.9600e-003</b>	<b>0.0972</b>		<b>444.7476</b>	<b>444.7476</b>	<b>7.7600e-003</b>	<b>0.0400</b>	<b>456.8507</b>



Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.4 Building Construction - 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					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</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
Vendor	0.0107	0.4779	0.1458	2.0700e-003	0.0715	2.8700e-003	0.0743	0.0206	2.7400e-003	0.0233		218.6967	218.6967	5.8000e-004	0.0333	228.6355
Worker	0.0935	0.0620	0.7313	2.1900e-003	0.2739	1.3200e-003	0.2752	0.0726	1.2200e-003	0.0739		226.0509	226.0509	7.1800e-003	6.6600e-003	228.2151
<b>Total</b>	<b>0.1041</b>	<b>0.5399</b>	<b>0.8770</b>	<b>4.2600e-003</b>	<b>0.3453</b>	<b>4.1900e-003</b>	<b>0.3495</b>	<b>0.0932</b>	<b>3.9600e-003</b>	<b>0.0972</b>		<b>444.7476</b>	<b>444.7476</b>	<b>7.7600e-003</b>	<b>0.0400</b>	<b>456.8507</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.5 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.9624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>3.1670</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	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
Worker	0.0211	0.0153	0.1641	4.6000e-004	0.0533	2.9000e-004	0.0535	0.0141	2.6000e-004	0.0144		46.3049	46.3049	1.7000e-003	1.5000e-003	46.7949
<b>Total</b>	<b>0.0211</b>	<b>0.0153</b>	<b>0.1641</b>	<b>4.6000e-004</b>	<b>0.0533</b>	<b>2.9000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.6000e-004</b>	<b>0.0144</b>		<b>46.3049</b>	<b>46.3049</b>	<b>1.7000e-003</b>	<b>1.5000e-003</b>	<b>46.7949</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.5 Architectural Coating - 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					
Archit. Coating	2.9624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>3.1670</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
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
Worker	0.0211	0.0153	0.1641	4.6000e-004	0.0533	2.9000e-004	0.0535	0.0141	2.6000e-004	0.0144		46.3049	46.3049	1.7000e-003	1.5000e-003	46.7949
<b>Total</b>	<b>0.0211</b>	<b>0.0153</b>	<b>0.1641</b>	<b>4.6000e-004</b>	<b>0.0533</b>	<b>2.9000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.6000e-004</b>	<b>0.0144</b>		<b>46.3049</b>	<b>46.3049</b>	<b>1.7000e-003</b>	<b>1.5000e-003</b>	<b>46.7949</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.5 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	2.9624					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
<b>Total</b>	<b>3.1541</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**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	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
Worker	0.0195	0.0135	0.1521	4.4000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		45.0942	45.0942	1.5400e-003	1.3900e-003	45.5471
<b>Total</b>	<b>0.0195</b>	<b>0.0135</b>	<b>0.1521</b>	<b>4.4000e-004</b>	<b>0.0533</b>	<b>2.7000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.5000e-004</b>	<b>0.0144</b>		<b>45.0942</b>	<b>45.0942</b>	<b>1.5400e-003</b>	<b>1.3900e-003</b>	<b>45.5471</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.5 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	2.9624					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
<b>Total</b>	<b>3.1541</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</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
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
Worker	0.0195	0.0135	0.1521	4.4000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		45.0942	45.0942	1.5400e-003	1.3900e-003	45.5471
<b>Total</b>	<b>0.0195</b>	<b>0.0135</b>	<b>0.1521</b>	<b>4.4000e-004</b>	<b>0.0533</b>	<b>2.7000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.5000e-004</b>	<b>0.0144</b>		<b>45.0942</b>	<b>45.0942</b>	<b>1.5400e-003</b>	<b>1.3900e-003</b>	<b>45.5471</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.5 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	2.9624					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
<b>Total</b>	<b>3.1432</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**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	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
Worker	0.0182	0.0121	0.1422	4.3000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		43.9544	43.9544	1.4000e-003	1.2900e-003	44.3752
<b>Total</b>	<b>0.0182</b>	<b>0.0121</b>	<b>0.1422</b>	<b>4.3000e-004</b>	<b>0.0533</b>	<b>2.6000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.4000e-004</b>	<b>0.0144</b>		<b>43.9544</b>	<b>43.9544</b>	<b>1.4000e-003</b>	<b>1.2900e-003</b>	<b>44.3752</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**3.5 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	2.9624					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
<b>Total</b>	<b>3.1432</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</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
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
Worker	0.0182	0.0121	0.1422	4.3000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		43.9544	43.9544	1.4000e-003	1.2900e-003	44.3752
<b>Total</b>	<b>0.0182</b>	<b>0.0121</b>	<b>0.1422</b>	<b>4.3000e-004</b>	<b>0.0533</b>	<b>2.6000e-004</b>	<b>0.0535</b>	<b>0.0141</b>	<b>2.4000e-004</b>	<b>0.0144</b>		<b>43.9544</b>	<b>43.9544</b>	<b>1.4000e-003</b>	<b>1.2900e-003</b>	<b>44.3752</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**4.0 Operational Detail - Mobile**

**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	1.5923	2.6351	16.3725	0.0320	3.2832	0.0283	3.3114	0.8765	0.0265	0.9030		3,320,243 5	3,320,243 5	0.2350	0.1917	3,383,245 4
Unmitigated	1.5923	2.6351	16.3725	0.0320	3.2832	0.0283	3.3114	0.8765	0.0265	0.9030		3,320,243 5	3,320,243 5	0.2350	0.1917	3,383,245 4

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	525.20	525.20	525.20	1,552,323	1,552,323
Total	525.20	525.20	525.20	1,552,323	1,552,323

**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
Single Family Housing	10.00	5.00	7.00	46.00	13.00	41.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020



Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, Winter

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Percent of Electricity Use Generated with Renewable 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	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
NaturalGas Unmitigated	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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					
Single Family Housing	7368.72	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
<b>Total</b>		<b>0.0795</b>	<b>0.6791</b>	<b>0.2890</b>	<b>4.3300e-003</b>		<b>0.0549</b>	<b>0.0549</b>		<b>0.0549</b>	<b>0.0549</b>		<b>866.9085</b>	<b>866.9085</b>	<b>0.0166</b>	<b>0.0159</b>	<b>872.0601</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					
Single Family Housing	7.36872	0.0795	0.6791	0.2890	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.9085	866.9085	0.0166	0.0159	872.0601
<b>Total</b>		<b>0.0795</b>	<b>0.6791</b>	<b>0.2890</b>	<b>4.3300e-003</b>		<b>0.0549</b>	<b>0.0549</b>		<b>0.0549</b>	<b>0.0549</b>		<b>866.9085</b>	<b>866.9085</b>	<b>0.0166</b>	<b>0.0159</b>	<b>872.0601</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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
Category	lb/day										lb/day					
Mitigated	4.5305	0.0960	8.3291	4.4000e-004		0.0462	0.0462		0.0462	0.0462	0.0000	15.0038	15.0038	0.0144	0.0000	15.3637
Unmitigated	5.8250	0.2877	20.0844	0.0388		1.9638	1.9638		1.9638	1.9638	283.0464	15.0038	298.0502	1.3376	0.0000	331.4897

**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	0.3896					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.2944	0.1918	11.7553	0.0384		1.9177	1.9177		1.9177	1.9177	283.0464	0.0000	283.0464	1.3232	0.0000	316.1260
Landscaping	0.2504	0.0960	8.3291	4.4000e-004		0.0462	0.0462		0.0462	0.0462		15.0038	15.0038	0.0144		15.3637
<b>Total</b>	<b>5.8250</b>	<b>0.2877</b>	<b>20.0844</b>	<b>0.0388</b>		<b>1.9638</b>	<b>1.9638</b>		<b>1.9638</b>	<b>1.9638</b>	<b>283.0464</b>	<b>15.0038</b>	<b>298.0502</b>	<b>1.3376</b>	<b>0.0000</b>	<b>331.4897</b>

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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	0.3896					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8905					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	0.2504	0.0960	8.3291	4.4000e-004		0.0462	0.0462		0.0462	0.0462		15.0038	15.0038	0.0144		15.3637
<b>Total</b>	<b>4.5305</b>	<b>0.0960</b>	<b>8.3291</b>	<b>4.4000e-004</b>		<b>0.0462</b>	<b>0.0462</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>15.0038</b>	<b>15.0038</b>	<b>0.0144</b>	<b>0.0000</b>	<b>15.3637</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Lincoln Square Project - Residential - Yolo/Solano AQMD Air District, 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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### Lincoln Square Project - Residential

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

#### Yolo/Solano AQMD Air District, Mitigation Report

#### Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### OFFROAD Equipment Mitigation

**Lincoln Square Project - Residential**

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

### Lincoln Square Project - Residential

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	4.70200E-002	3.21190E-001	4.34880E-001	7.10000E-004	1.78500E-002	1.78500E-002	0.00000E+000	6.12781E+001	6.12781E+001	3.78000E-003	0.00000E+000	6.13725E+001
Cranes	7.54600E-002	8.29910E-001	3.89620E-001	1.21000E-003	3.45700E-002	3.18000E-002	0.00000E+000	1.06461E+002	1.06461E+002	3.44300E-002	0.00000E+000	1.07322E+002
Excavators	4.05000E-003	3.55400E-002	6.51000E-002	1.00000E-004	1.72000E-003	1.58000E-003	0.00000E+000	9.07212E+000	9.07212E+000	2.93000E-003	0.00000E+000	9.14548E+000
Forklifts	7.68100E-002	7.16480E-001	8.26710E-001	1.10000E-003	4.55400E-002	4.18900E-002	0.00000E+000	9.66897E+001	9.66897E+001	3.12700E-002	0.00000E+000	9.74715E+001
Generator Sets	7.55500E-002	6.70720E-001	8.81230E-001	1.58000E-003	3.24200E-002	3.24200E-002	0.00000E+000	1.35650E+002	1.35650E+002	6.14000E-003	0.00000E+000	1.35803E+002
Graders	4.15000E-003	5.25800E-002	1.72200E-002	7.00000E-005	1.67000E-003	1.54000E-003	0.00000E+000	5.81758E+000	5.81758E+000	1.88000E-003	0.00000E+000	5.86462E+000
Pavers	4.10000E-004	4.20000E-003	5.77000E-003	1.00000E-005	2.00000E-004	1.80000E-004	0.00000E+000	8.26010E-001	8.26010E-001	2.70000E-004	0.00000E+000	8.32680E-001
Paving Equipment	3.60000E-004	3.48000E-003	5.09000E-003	1.00000E-005	1.70000E-004	1.60000E-004	0.00000E+000	7.15710E-001	7.15710E-001	2.30000E-004	0.00000E+000	7.21500E-001
Rollers	3.30000E-004	3.45000E-003	3.72000E-003	1.00000E-005	2.00000E-004	1.80000E-004	0.00000E+000	4.61040E-001	4.61040E-001	1.50000E-004	0.00000E+000	4.64770E-001
Rubber Tired Dozers	8.37000E-003	8.79400E-002	3.58200E-002	9.00000E-005	4.17000E-003	3.84000E-003	0.00000E+000	7.50274E+000	7.50274E+000	2.43000E-003	0.00000E+000	7.56340E+000
Scrapers	1.63800E-002	1.78870E-001	1.27520E-001	3.00000E-004	6.98000E-003	6.42000E-003	0.00000E+000	2.66766E+001	2.66766E+001	8.63000E-003	0.00000E+000	2.68923E+001
Tractors/Loaders/Backhoes	1.01880E-001	1.03454E+000	1.45233E+000	2.02000E-003	5.29800E-002	4.87400E-002	0.00000E+000	1.77751E+002	1.77751E+002	5.74900E-002	0.00000E+000	1.79188E+002
Welders	6.30500E-002	3.44650E-001	4.04300E-001	6.10000E-004	1.40100E-002	1.40100E-002	0.00000E+000	4.51730E+001	4.51730E+001	5.11000E-003	0.00000E+000	4.53007E+001



### Lincoln Square Project - Residential

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	4.70200E-002	3.21190E-001	4.34880E-001	7.10000E-004	1.78500E-002	1.78500E-002	0.00000E+000	6.12780E+001	6.12780E+001	3.78000E-003	0.00000E+000	6.13725E+001
Cranes	7.54600E-002	8.29910E-001	3.89620E-001	1.21000E-003	3.45700E-002	3.18000E-002	0.00000E+000	1.06461E+002	1.06461E+002	3.44300E-002	0.00000E+000	1.07321E+002
Excavators	4.05000E-003	3.55400E-002	6.51000E-002	1.00000E-004	1.72000E-003	1.58000E-003	0.00000E+000	9.07211E+000	9.07211E+000	2.93000E-003	0.00000E+000	9.14547E+000
Forklifts	7.68100E-002	7.16480E-001	8.26710E-001	1.10000E-003	4.55400E-002	4.18900E-002	0.00000E+000	9.66896E+001	9.66896E+001	3.12700E-002	0.00000E+000	9.74714E+001
Generator Sets	7.55500E-002	6.70720E-001	8.81230E-001	1.58000E-003	3.24200E-002	3.24200E-002	0.00000E+000	1.35650E+002	1.35650E+002	6.14000E-003	0.00000E+000	1.35803E+002
Graders	4.15000E-003	5.25800E-002	1.72200E-002	7.00000E-005	1.67000E-003	1.54000E-003	0.00000E+000	5.81758E+000	5.81758E+000	1.88000E-003	0.00000E+000	5.86462E+000
Pavers	4.10000E-004	4.20000E-003	5.77000E-003	1.00000E-005	2.00000E-004	1.80000E-004	0.00000E+000	8.26010E-001	8.26010E-001	2.70000E-004	0.00000E+000	8.32680E-001
Paving Equipment	3.60000E-004	3.48000E-003	5.09000E-003	1.00000E-005	1.70000E-004	1.60000E-004	0.00000E+000	7.15710E-001	7.15710E-001	2.30000E-004	0.00000E+000	7.21500E-001
Rollers	3.30000E-004	3.45000E-003	3.72000E-003	1.00000E-005	2.00000E-004	1.80000E-004	0.00000E+000	4.61040E-001	4.61040E-001	1.50000E-004	0.00000E+000	4.64770E-001
Rubber Tired Dozers	8.37000E-003	8.79400E-002	3.58200E-002	9.00000E-005	4.17000E-003	3.84000E-003	0.00000E+000	7.50273E+000	7.50273E+000	2.43000E-003	0.00000E+000	7.56339E+000
Scrapers	1.63800E-002	1.78870E-001	1.27520E-001	3.00000E-004	6.98000E-003	6.42000E-003	0.00000E+000	2.66765E+001	2.66765E+001	8.63000E-003	0.00000E+000	2.68922E+001
Tractors/Loaders/Balckhoes	1.01880E-001	1.03454E+000	1.45233E+000	2.02000E-003	5.29800E-002	4.87400E-002	0.00000E+000	1.77750E+002	1.77750E+002	5.74900E-002	0.00000E+000	1.79188E+002
Welders	6.30500E-002	3.44640E-001	4.04300E-001	6.10000E-004	1.40100E-002	1.40100E-002	0.00000E+000	4.51729E+001	4.51729E+001	5.11000E-003	0.00000E+000	4.53006E+001

### Lincoln Square Project - Residential

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14233E-006	1.14233E-006	0.00000E+000	0.00000E+000	1.14058E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22111E-006	1.22111E-006	0.00000E+000	0.00000E+000	1.21131E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10228E-006	1.10228E-006	0.00000E+000	0.00000E+000	1.09344E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13766E-006	1.13766E-006	0.00000E+000	0.00000E+000	1.23113E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17817E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33285E-006	1.33285E-006	0.00000E+000	0.00000E+000	1.32216E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12458E-006	1.12458E-006	0.00000E+000	0.00000E+000	1.11556E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18143E-006	1.18143E-006	0.00000E+000	0.00000E+000	1.17196E-006
Welders	0.00000E+000	2.90149E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10686E-006	1.10686E-006	0.00000E+000	0.00000E+000	1.10374E-006

### Fugitive Dust Mitigation

Yes/No    Mitigation Measure                      Mitigation Input                      Mitigation Input                      Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
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### Lincoln Square Project - Residential

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

Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	0.00	100.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.79	4.00	0.02	0.00	1.99	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network	1.00	Project Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				

**Lincoln Square Project - Residential**

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

No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00	0.00	
No	Transit Improvements	Expand Transit Network	0.00	0.00	
No	Transit Improvements	Increase Transit Frequency	0.00		0.00
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge		0.00	
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		

**Lincoln Square Project - Residential**

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

	Total VMT Reduction	0.00		
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**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	50.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
Yes	On-site Renewable		100.00

**Lincoln Square Project - Residential**

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

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy		20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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### Lincoln Square Project - Residential

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

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Lincoln Square Project - Commercial**

**Yolo/Solano AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	30.00	Space	1.90	12,000.00	0
Convenience Market with Gas Pumps	8.00	Pump	0.03	1,129.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	55
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<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 - Lot acreage adjusted per AQ Questionnaire.

Construction Phase - Construction phase timing adjusted based on applicant-provided AQ Questionnaire.

Trips and VMT - Site prep and grading phase haul trip lengths adjusted per applicant-provided information.

Grading -

Mobile Land Use Mitigation -

Water Mitigation - Outdoor water conservation strategy applied in order to reflect compliance with MWEL0.

Vehicle Trips - Trip generation rate adjusted based on information provided by the project-specific traffic consultant.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	120.00

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

tblConstructionPhase	NumDays	200.00	120.00
tblConstructionPhase	NumDays	4.00	10.00
tblConstructionPhase	NumDays	10.00	7.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	PhaseEndDate	6/13/2022	3/8/2022
tblConstructionPhase	PhaseEndDate	5/16/2022	2/22/2022
tblConstructionPhase	PhaseEndDate	8/9/2021	8/27/2021
tblConstructionPhase	PhaseEndDate	5/30/2022	9/7/2021
tblConstructionPhase	PhaseEndDate	8/3/2021	8/13/2021
tblConstructionPhase	PhaseStartDate	5/31/2022	9/22/2021
tblConstructionPhase	PhaseStartDate	8/10/2021	9/8/2021
tblConstructionPhase	PhaseStartDate	8/4/2021	8/14/2021
tblConstructionPhase	PhaseStartDate	5/17/2022	8/28/2021
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LotAcreage	0.27	1.90
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	63.00	62.00
tblVehicleTrips	ST_TR	322.50	407.25
tblVehicleTrips	SU_TR	322.50	407.25
tblVehicleTrips	WD_TR	322.50	407.25

**2.0 Emissions Summary**

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1105	0.8658	0.7343	1.3900e-003	0.0725	0.0421	0.1147	0.0337	0.0404	0.0741	0.0000	117.8372	117.8372	0.0209	1.6500e-003	118.8501
2022	0.0376	0.2665	0.2812	4.9000e-004	1.0900e-003	0.0128	0.0139	2.9000e-004	0.0125	0.0128	0.0000	41.0068	41.0068	6.2700e-003	1.3000e-004	41.2015
<b>Maximum</b>	<b>0.1105</b>	<b>0.8658</b>	<b>0.7343</b>	<b>1.3900e-003</b>	<b>0.0725</b>	<b>0.0421</b>	<b>0.1147</b>	<b>0.0337</b>	<b>0.0404</b>	<b>0.0741</b>	<b>0.0000</b>	<b>117.8372</b>	<b>117.8372</b>	<b>0.0209</b>	<b>1.6500e-003</b>	<b>118.8501</b>

**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					
2021	0.1105	0.8658	0.7343	1.3900e-003	0.0725	0.0421	0.1147	0.0337	0.0404	0.0741	0.0000	117.8371	117.8371	0.0209	1.6500e-003	118.8499
2022	0.0376	0.2665	0.2812	4.9000e-004	1.0900e-003	0.0128	0.0139	2.9000e-004	0.0125	0.0128	0.0000	41.0067	41.0067	6.2700e-003	1.3000e-004	41.2015
<b>Maximum</b>	<b>0.1105</b>	<b>0.8658</b>	<b>0.7343</b>	<b>1.3900e-003</b>	<b>0.0725</b>	<b>0.0421</b>	<b>0.1147</b>	<b>0.0337</b>	<b>0.0404</b>	<b>0.0741</b>	<b>0.0000</b>	<b>117.8371</b>	<b>117.8371</b>	<b>0.0209</b>	<b>1.6500e-003</b>	<b>118.8499</b>

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**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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2021	10-31-2021	0.5845	0.5845
2	11-1-2021	1-31-2022	0.5568	0.5568
3	2-1-2022	4-30-2022	0.1341	0.1341
		Highest	0.5845	0.5845

**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	5.7100e-003	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.8000e-004	6.8000e-004	0.0000	0.0000	7.2000e-004
Energy	1.0000e-005	1.3000e-004	1.1000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	1.6154	1.6154	2.4000e-004	3.0000e-005	1.6308
Mobile	1.1167	0.9595	5.7328	6.2700e-003	0.4896	7.6100e-003	0.4972	0.1311	7.1200e-003	0.1382	0.0000	583.0581	583.0581	0.1029	0.0603	603.5861
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0265	0.0585	0.0850	2.7400e-003	7.0000e-005	0.1729
<b>Total</b>	<b>1.1224</b>	<b>0.9596</b>	<b>5.7333</b>	<b>6.2700e-003</b>	<b>0.4896</b>	<b>7.6200e-003</b>	<b>0.4972</b>	<b>0.1311</b>	<b>7.1300e-003</b>	<b>0.1382</b>	<b>0.0265</b>	<b>584.7326</b>	<b>584.7592</b>	<b>0.1059</b>	<b>0.0604</b>	<b>605.3905</b>

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

**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	5.7100e-003	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.8000e-004	6.8000e-004	0.0000	0.0000	7.2000e-004
Energy	1.0000e-005	1.3000e-004	1.1000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	1.6154	1.6154	2.4000e-004	3.0000e-005	1.6308
Mobile	1.1153	0.9558	5.7120	6.2100e-003	0.4847	7.5600e-003	0.4922	0.1297	7.0700e-003	0.1368	0.0000	578.2302	578.2302	0.1027	0.0600	598.6850
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0265	0.0552	0.0817	2.7300e-003	7.0000e-005	0.1696
<b>Total</b>	<b>1.1210</b>	<b>0.9559</b>	<b>5.7124</b>	<b>6.2100e-003</b>	<b>0.4847</b>	<b>7.5700e-003</b>	<b>0.4922</b>	<b>0.1297</b>	<b>7.0800e-003</b>	<b>0.1368</b>	<b>0.0265</b>	<b>579.9014</b>	<b>579.9279</b>	<b>0.1056</b>	<b>0.0601</b>	<b>600.4861</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.13</b>	<b>0.39</b>	<b>0.36</b>	<b>0.96</b>	<b>1.00</b>	<b>0.66</b>	<b>1.00</b>	<b>1.00</b>	<b>0.70</b>	<b>0.98</b>	<b>0.00</b>	<b>0.83</b>	<b>0.83</b>	<b>0.22</b>	<b>0.36</b>	<b>0.81</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2021	8/13/2021	5	10	
2	Grading	Grading	8/14/2021	8/27/2021	5	10	
3	Building Construction	Building Construction	9/8/2021	2/22/2022	5	120	

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4	Paving	Paving	8/28/2021	9/7/2021	5	7
5	Architectural Coating	Architectural Coating	9/22/2021	3/8/2022	5	120

**Acres of Grading (Site Preparation Phase): 9.38**

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 1.9**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,694; Non-Residential Outdoor: 565; Striped Parking Area: 720 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

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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
Site Preparation	3	8.00	0.00	62.00	10.00	7.00	30.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	125.00	10.00	7.00	30.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	5.00	2.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 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					0.0314	0.0000	0.0314	0.0150	0.0000	0.0150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7800e-003	0.0871	0.0378	9.0000e-005		3.8300e-003	3.8300e-003		3.5200e-003	3.5200e-003	0.0000	7.5592	7.5592	2.4400e-003	0.0000	7.6203
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0871</b>	<b>0.0378</b>	<b>9.0000e-005</b>	<b>0.0314</b>	<b>3.8300e-003</b>	<b>0.0352</b>	<b>0.0150</b>	<b>3.5200e-003</b>	<b>0.0185</b>	<b>0.0000</b>	<b>7.5592</b>	<b>7.5592</b>	<b>2.4400e-003</b>	<b>0.0000</b>	<b>7.6203</b>

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

**3.2 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	2.5000e-004	7.7100e-003	1.4000e-003	3.0000e-005	7.9000e-004	1.2000e-004	9.1000e-004	2.2000e-004	1.1000e-004	3.3000e-004	0.0000	2.7968	2.7968	1.0000e-005	4.4000e-004	2.9281
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	1.2000e-004	9.0000e-005	9.9000e-004	0.0000	2.9000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2523	0.2523	1.0000e-005	1.0000e-005	0.2549
<b>Total</b>	<b>3.7000e-004</b>	<b>7.8000e-003</b>	<b>2.3900e-003</b>	<b>3.0000e-005</b>	<b>1.0800e-003</b>	<b>1.2000e-004</b>	<b>1.2100e-003</b>	<b>3.0000e-004</b>	<b>1.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>3.0491</b>	<b>3.0491</b>	<b>2.0000e-005</b>	<b>4.5000e-004</b>	<b>3.1829</b>

**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					0.0314	0.0000	0.0314	0.0150	0.0000	0.0150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7800e-003	0.0871	0.0378	9.0000e-005		3.8300e-003	3.8300e-003		3.5200e-003	3.5200e-003	0.0000	7.5592	7.5592	2.4400e-003	0.0000	7.6203
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0871</b>	<b>0.0378</b>	<b>9.0000e-005</b>	<b>0.0314</b>	<b>3.8300e-003</b>	<b>0.0352</b>	<b>0.0150</b>	<b>3.5200e-003</b>	<b>0.0185</b>	<b>0.0000</b>	<b>7.5592</b>	<b>7.5592</b>	<b>2.4400e-003</b>	<b>0.0000</b>	<b>7.6203</b>



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**3.2 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	2.5000e-004	7.7100e-003	1.4000e-003	3.0000e-005	7.9000e-004	1.2000e-004	9.1000e-004	2.2000e-004	1.1000e-004	3.3000e-004	0.0000	2.7968	2.7968	1.0000e-005	4.4000e-004	2.9281
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	1.2000e-004	9.0000e-005	9.9000e-004	0.0000	2.9000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2523	0.2523	1.0000e-005	1.0000e-005	0.2549
<b>Total</b>	<b>3.7000e-004</b>	<b>7.8000e-003</b>	<b>2.3900e-003</b>	<b>3.0000e-005</b>	<b>1.0800e-003</b>	<b>1.2000e-004</b>	<b>1.2100e-003</b>	<b>3.0000e-004</b>	<b>1.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>3.0491</b>	<b>3.0491</b>	<b>2.0000e-005</b>	<b>4.5000e-004</b>	<b>3.1829</b>

**3.3 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					0.0355	0.0000	0.0355	0.0171	0.0000	0.0171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1400e-003	0.1011	0.0488	1.0000e-004		4.5800e-003	4.5800e-003		4.2100e-003	4.2100e-003	0.0000	9.0519	9.0519	2.9300e-003	0.0000	9.1251
<b>Total</b>	<b>9.1400e-003</b>	<b>0.1011</b>	<b>0.0488</b>	<b>1.0000e-004</b>	<b>0.0355</b>	<b>4.5800e-003</b>	<b>0.0401</b>	<b>0.0171</b>	<b>4.2100e-003</b>	<b>0.0213</b>	<b>0.0000</b>	<b>9.0519</b>	<b>9.0519</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>9.1251</b>

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**3.3 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	5.1000e-004	0.0155	2.8100e-003	6.0000e-005	1.5900e-003	2.3000e-004	1.8300e-003	4.4000e-004	2.2000e-004	6.6000e-004	0.0000	5.6386	5.6386	2.0000e-005	8.9000e-004	5.9033
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	1.6000e-004	1.1000e-004	1.2400e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3154	0.3154	1.0000e-005	1.0000e-005	0.3186
<b>Total</b>	<b>6.7000e-004</b>	<b>0.0157</b>	<b>4.0500e-003</b>	<b>6.0000e-005</b>	<b>1.9600e-003</b>	<b>2.3000e-004</b>	<b>2.2000e-003</b>	<b>5.4000e-004</b>	<b>2.2000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>5.9540</b>	<b>5.9540</b>	<b>3.0000e-005</b>	<b>9.0000e-004</b>	<b>6.2219</b>

**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					0.0355	0.0000	0.0355	0.0171	0.0000	0.0171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1400e-003	0.1011	0.0488	1.0000e-004		4.5800e-003	4.5800e-003		4.2100e-003	4.2100e-003	0.0000	9.0519	9.0519	2.9300e-003	0.0000	9.1251
<b>Total</b>	<b>9.1400e-003</b>	<b>0.1011</b>	<b>0.0488</b>	<b>1.0000e-004</b>	<b>0.0355</b>	<b>4.5800e-003</b>	<b>0.0401</b>	<b>0.0171</b>	<b>4.2100e-003</b>	<b>0.0213</b>	<b>0.0000</b>	<b>9.0519</b>	<b>9.0519</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>9.1251</b>

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**3.3 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	5.1000e-004	0.0155	2.8100e-003	6.0000e-005	1.5900e-003	2.3000e-004	1.8300e-003	4.4000e-004	2.2000e-004	6.6000e-004	0.0000	5.6386	5.6386	2.0000e-005	8.9000e-004	5.9033
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	1.6000e-004	1.1000e-004	1.2400e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3154	0.3154	1.0000e-005	1.0000e-005	0.3186
<b>Total</b>	<b>6.7000e-004</b>	<b>0.0157</b>	<b>4.0500e-003</b>	<b>6.0000e-005</b>	<b>1.9600e-003</b>	<b>2.3000e-004</b>	<b>2.2000e-003</b>	<b>5.4000e-004</b>	<b>2.2000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>5.9540</b>	<b>5.9540</b>	<b>3.0000e-005</b>	<b>9.0000e-004</b>	<b>6.2219</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0752	0.5659	0.5353	9.1000e-004		0.0284	0.0284		0.0274	0.0274	0.0000	75.3423	75.3423	0.0135	0.0000	75.6785
<b>Total</b>	<b>0.0752</b>	<b>0.5659</b>	<b>0.5353</b>	<b>9.1000e-004</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0274</b>	<b>0.0274</b>	<b>0.0000</b>	<b>75.3423</b>	<b>75.3423</b>	<b>0.0135</b>	<b>0.0000</b>	<b>75.6785</b>

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**3.4 Building Construction - 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	2.2000e-004	4.8100e-003	1.4200e-003	2.0000e-005	5.2000e-004	7.0000e-005	6.0000e-004	1.5000e-004	7.0000e-005	2.2000e-004	0.0000	1.6174	1.6174	1.0000e-005	2.5000e-004	1.6910
Worker	6.4000e-004	4.6000e-004	5.1300e-003	1.0000e-005	1.5300e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.1000e-004	0.0000	1.3089	1.3089	5.0000e-005	4.0000e-005	1.3221
<b>Total</b>	<b>8.6000e-004</b>	<b>5.2700e-003</b>	<b>6.5500e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>	<b>8.0000e-005</b>	<b>2.1400e-003</b>	<b>5.6000e-004</b>	<b>8.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.9263</b>	<b>2.9263</b>	<b>6.0000e-005</b>	<b>2.9000e-004</b>	<b>3.0131</b>

**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	0.0752	0.5659	0.5353	9.1000e-004		0.0284	0.0284		0.0274	0.0274	0.0000	75.3422	75.3422	0.0135	0.0000	75.6784
<b>Total</b>	<b>0.0752</b>	<b>0.5659</b>	<b>0.5353</b>	<b>9.1000e-004</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0274</b>	<b>0.0274</b>	<b>0.0000</b>	<b>75.3422</b>	<b>75.3422</b>	<b>0.0135</b>	<b>0.0000</b>	<b>75.6784</b>

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**3.4 Building Construction - 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	2.2000e-004	4.8100e-003	1.4200e-003	2.0000e-005	5.2000e-004	7.0000e-005	6.0000e-004	1.5000e-004	7.0000e-005	2.2000e-004	0.0000	1.6174	1.6174	1.0000e-005	2.5000e-004	1.6910
Worker	6.4000e-004	4.6000e-004	5.1300e-003	1.0000e-005	1.5300e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.1000e-004	0.0000	1.3089	1.3089	5.0000e-005	4.0000e-005	1.3221
<b>Total</b>	<b>8.6000e-004</b>	<b>5.2700e-003</b>	<b>6.5500e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>	<b>8.0000e-005</b>	<b>2.1400e-003</b>	<b>5.6000e-004</b>	<b>8.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.9263</b>	<b>2.9263</b>	<b>6.0000e-005</b>	<b>2.9000e-004</b>	<b>3.0131</b>

**3.4 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	0.0305	0.2313	0.2354	4.1000e-004		0.0109	0.0109		0.0105	0.0105	0.0000	33.5917	33.5917	5.8500e-003	0.0000	33.7380
<b>Total</b>	<b>0.0305</b>	<b>0.2313</b>	<b>0.2354</b>	<b>4.1000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0105</b>	<b>0.0105</b>	<b>0.0000</b>	<b>33.5917</b>	<b>33.5917</b>	<b>5.8500e-003</b>	<b>0.0000</b>	<b>33.7380</b>

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**3.4 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	6.0000e-005	1.8400e-003	5.4000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	7.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7028	0.7028	0.0000	1.1000e-004	0.7348
Worker	2.7000e-004	1.8000e-004	2.1000e-003	1.0000e-005	6.8000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5678	0.5678	2.0000e-005	2.0000e-005	0.5732
<b>Total</b>	<b>3.3000e-004</b>	<b>2.0200e-003</b>	<b>2.6400e-003</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>2.0000e-005</b>	<b>9.3000e-004</b>	<b>2.5000e-004</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.2706</b>	<b>1.2706</b>	<b>2.0000e-005</b>	<b>1.3000e-004</b>	<b>1.3080</b>

**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	0.0305	0.2313	0.2354	4.1000e-004		0.0109	0.0109		0.0105	0.0105	0.0000	33.5917	33.5917	5.8500e-003	0.0000	33.7380
<b>Total</b>	<b>0.0305</b>	<b>0.2313</b>	<b>0.2354</b>	<b>4.1000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0105</b>	<b>0.0105</b>	<b>0.0000</b>	<b>33.5917</b>	<b>33.5917</b>	<b>5.8500e-003</b>	<b>0.0000</b>	<b>33.7380</b>

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**3.4 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	6.0000e-005	1.8400e-003	5.4000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	7.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7028	0.7028	0.0000	1.1000e-004	0.7348
Worker	2.7000e-004	1.8000e-004	2.1000e-003	1.0000e-005	6.8000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5678	0.5678	2.0000e-005	2.0000e-005	0.5732
<b>Total</b>	<b>3.3000e-004</b>	<b>2.0200e-003</b>	<b>2.6400e-003</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>2.0000e-005</b>	<b>9.3000e-004</b>	<b>2.5000e-004</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.2706</b>	<b>1.2706</b>	<b>2.0000e-005</b>	<b>1.3000e-004</b>	<b>1.3080</b>

**3.5 Paving - 2021**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7100e-003	0.0271	0.0310	5.0000e-005		1.4500e-003	1.4500e-003		1.3400e-003	1.3400e-003	0.0000	4.1177	4.1177	1.3100e-003	0.0000	4.1504
Paving	2.4900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.2000e-003</b>	<b>0.0271</b>	<b>0.0310</b>	<b>5.0000e-005</b>		<b>1.4500e-003</b>	<b>1.4500e-003</b>		<b>1.3400e-003</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>4.1177</b>	<b>4.1177</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.1504</b>

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**3.5 Paving - 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	1.4000e-004	1.0000e-004	1.1200e-003	0.0000	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2870	0.2870	1.0000e-005	1.0000e-005	0.2899
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-004</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2870</b>	<b>0.2870</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2899</b>

**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	2.7100e-003	0.0271	0.0310	5.0000e-005		1.4500e-003	1.4500e-003		1.3400e-003	1.3400e-003	0.0000	4.1177	4.1177	1.3100e-003	0.0000	4.1504
Paving	2.4900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.2000e-003</b>	<b>0.0271</b>	<b>0.0310</b>	<b>5.0000e-005</b>		<b>1.4500e-003</b>	<b>1.4500e-003</b>		<b>1.3400e-003</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>4.1177</b>	<b>4.1177</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.1504</b>



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**3.5 Paving - 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	1.4000e-004	1.0000e-004	1.1200e-003	0.0000	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2870	0.2870	1.0000e-005	1.0000e-005	0.2899
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-004</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2870</b>	<b>0.2870</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2899</b>

**3.6 Architectural Coating - 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					
Archit. Coating	3.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9900e-003	0.0557	0.0663	1.1000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	9.3194	9.3194	6.4000e-004	0.0000	9.3354
<b>Total</b>	<b>0.0110</b>	<b>0.0557</b>	<b>0.0663</b>	<b>1.1000e-004</b>		<b>3.4300e-003</b>	<b>3.4300e-003</b>		<b>3.4300e-003</b>	<b>3.4300e-003</b>	<b>0.0000</b>	<b>9.3194</b>	<b>9.3194</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>9.3354</b>

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**3.6 Architectural Coating - 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	1.1000e-004	8.0000e-005	9.0000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2302	0.2302	1.0000e-005	1.0000e-005	0.2326
<b>Total</b>	<b>1.1000e-004</b>	<b>8.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2302</b>	<b>0.2302</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2326</b>

**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	3.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9900e-003	0.0557	0.0663	1.1000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	9.3194	9.3194	6.4000e-004	0.0000	9.3354
<b>Total</b>	<b>0.0110</b>	<b>0.0557</b>	<b>0.0663</b>	<b>1.1000e-004</b>		<b>3.4300e-003</b>	<b>3.4300e-003</b>		<b>3.4300e-003</b>	<b>3.4300e-003</b>	<b>0.0000</b>	<b>9.3194</b>	<b>9.3194</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>9.3354</b>

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**3.6 Architectural Coating - 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	1.1000e-004	8.0000e-005	9.0000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2302	0.2302	1.0000e-005	1.0000e-005	0.2326
<b>Total</b>	<b>1.1000e-004</b>	<b>8.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2302</b>	<b>0.2302</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2326</b>

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8100e-003	0.0331	0.0426	7.0000e-005		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	6.0002	6.0002	3.9000e-004	0.0000	6.0099
<b>Total</b>	<b>6.7500e-003</b>	<b>0.0331</b>	<b>0.0426</b>	<b>7.0000e-005</b>		<b>1.9200e-003</b>	<b>1.9200e-003</b>		<b>1.9200e-003</b>	<b>1.9200e-003</b>	<b>0.0000</b>	<b>6.0002</b>	<b>6.0002</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>6.0099</b>

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**3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	7.0000e-005	5.0000e-005	5.3000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1443	0.1443	0.0000	0.0000	0.1456
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1443</b>	<b>0.1443</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1456</b>

**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	1.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8100e-003	0.0331	0.0426	7.0000e-005		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	6.0001	6.0001	3.9000e-004	0.0000	6.0099
<b>Total</b>	<b>6.7500e-003</b>	<b>0.0331</b>	<b>0.0426</b>	<b>7.0000e-005</b>		<b>1.9200e-003</b>	<b>1.9200e-003</b>		<b>1.9200e-003</b>	<b>1.9200e-003</b>	<b>0.0000</b>	<b>6.0001</b>	<b>6.0001</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>6.0099</b>

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**3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	7.0000e-005	5.0000e-005	5.3000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1443	0.1443	0.0000	0.0000	0.1456
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1443</b>	<b>0.1443</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1456</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	1.1153	0.9558	5.7120	6.2100e-003	0.4847	7.5600e-003	0.4922	0.1297	7.0700e-003	0.1368	0.0000	578.2302	578.2302	0.1027	0.0600	598.6850
Unmitigated	1.1167	0.9595	5.7328	6.2700e-003	0.4896	7.6100e-003	0.4972	0.1311	7.1200e-003	0.1382	0.0000	583.0581	583.0581	0.1029	0.0603	603.5861

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	3,258.00	3,258.00	3,258.00	1,314,406	1,301,262
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>3,258.00</b>	<b>3,258.00</b>	<b>3,258.00</b>	<b>1,314,406</b>	<b>1,301,262</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
Convenience Market with Gas	10.00	5.00	7.00	0.80	80.20	19.00	14	21	65
Parking Lot	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.499421	0.057115	0.178083	0.149064	0.035843	0.007506	0.018115	0.016711	0.000640	0.000558	0.031929	0.000615	0.004399
Parking Lot	0.499421	0.057115	0.178083	0.149064	0.035843	0.007506	0.018115	0.016711	0.000640	0.000558	0.031929	0.000615	0.004399

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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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.4743	1.4743	2.4000e-004	3.0000e-005	1.4889
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.4743	1.4743	2.4000e-004	3.0000e-005	1.4889
NaturalGas Mitigated	1.0000e-005	1.3000e-004	1.1000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1410	0.1410	0.0000	0.0000	0.1419
NaturalGas Unmitigated	1.0000e-005	1.3000e-004	1.1000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1410	0.1410	0.0000	0.0000	0.1419

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**5.2 Energy by Land Use - Natural Gas**

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	2642.8	1.0000e-005	1.3000e-004	1.1000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1410	0.1410	0.0000	0.0000	0.1419
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
<b>Total</b>		<b>1.0000e-005</b>	<b>1.3000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1410</b>	<b>0.1410</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1419</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	2642.8	1.0000e-005	1.3000e-004	1.1000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1410	0.1410	0.0000	0.0000	0.1419
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
<b>Total</b>		<b>1.0000e-005</b>	<b>1.3000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1410</b>	<b>0.1410</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1419</b>



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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	11734.5	1.0857	1.8000e-004	2.0000e-005	1.0965
Parking Lot	4200	0.3886	6.0000e-005	1.0000e-005	0.3924
<b>Total</b>		<b>1.4743</b>	<b>2.4000e-004</b>	<b>3.0000e-005</b>	<b>1.4889</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	11734.5	1.0857	1.8000e-004	2.0000e-005	1.0965
Parking Lot	4200	0.3886	6.0000e-005	1.0000e-005	0.3924
<b>Total</b>		<b>1.4743</b>	<b>2.4000e-004</b>	<b>3.0000e-005</b>	<b>1.4889</b>

**6.0 Area Detail**

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Annual

**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	tons/yr										MT/yr					
Mitigated	5.7100e-003	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.8000e-004	6.8000e-004	0.0000	0.0000	7.2000e-004
Unmitigated	5.7100e-003	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.8000e-004	6.8000e-004	0.0000	0.0000	7.2000e-004

**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	4.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.1900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.8000e-004	6.8000e-004	0.0000	0.0000	7.2000e-004
<b>Total</b>	<b>5.7100e-003</b>	<b>0.0000</b>	<b>3.5000e-004</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>6.8000e-004</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.2000e-004</b>

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**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	tons/yr										MT/yr					
Architectural Coating	4.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.1900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.8000e-004	6.8000e-004	0.0000	0.0000	7.2000e-004
<b>Total</b>	<b>5.7100e-003</b>	<b>0.0000</b>	<b>3.5000e-004</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>6.8000e-004</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.2000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0817	2.7300e-003	7.0000e-005	0.1696
Unmitigated	0.0850	2.7400e-003	7.0000e-005	0.1729

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.0836574 / 0.0512739	0.0850	2.7400e-003	7.0000e-005	0.1729
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0850</b>	<b>2.7400e-003</b>	<b>7.0000e-005</b>	<b>0.1729</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.0836574 / 0.0410191	0.0817	2.7300e-003	7.0000e-005	0.1696
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0817</b>	<b>2.7300e-003</b>	<b>7.0000e-005</b>	<b>0.1696</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	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>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	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>

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

**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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Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**Lincoln Square Project - Commercial  
Yolo/Solano AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	30.00	Space	1.90	12,000.00	0
Convenience Market with Gas Pumps	8.00	Pump	0.03	1,129.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	55
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<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 - Lot acreage adjusted per AQ Questionnaire.
- Construction Phase - Construction phase timing adjusted based on applicant-provided AQ Questionnaire.
- Trips and VMT - Site prep and grading phase haul trip lengths adjusted per applicant-provided information.
- Grading -
- Mobile Land Use Mitigation -
- Water Mitigation - Outdoor water conservation strategy applied in order to reflect compliance with MWEL0.
- Vehicle Trips - Trip generation rate adjusted based on information provided by the project-specific traffic consultant.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	120.00



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

tblConstructionPhase	NumDays	200.00	120.00
tblConstructionPhase	NumDays	4.00	10.00
tblConstructionPhase	NumDays	10.00	7.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	PhaseEndDate	6/13/2022	3/8/2022
tblConstructionPhase	PhaseEndDate	5/16/2022	2/22/2022
tblConstructionPhase	PhaseEndDate	8/9/2021	8/27/2021
tblConstructionPhase	PhaseEndDate	5/30/2022	9/7/2021
tblConstructionPhase	PhaseEndDate	8/3/2021	8/13/2021
tblConstructionPhase	PhaseStartDate	5/31/2022	9/22/2021
tblConstructionPhase	PhaseStartDate	8/10/2021	9/8/2021
tblConstructionPhase	PhaseStartDate	8/4/2021	8/14/2021
tblConstructionPhase	PhaseStartDate	5/17/2022	8/28/2021
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LotAcreage	0.27	1.90
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	63.00	62.00
tblVehicleTrips	ST_TR	322.50	407.25
tblVehicleTrips	SU_TR	322.50	407.25
tblVehicleTrips	WD_TR	322.50	407.25

**2.0 Emissions Summary**

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Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.1407	23.1694	14.9201	0.0331	7.4980	0.9630	8.4610	3.5365	0.8877	4.4242	0.0000	3,314.2226	3,314.2226	0.6529	0.1974	3,389.3559
2022	1.9589	14.0163	14.7242	0.0259	0.0586	0.6718	0.7304	0.0159	0.6517	0.6675	0.0000	2,369.0423	2,369.0423	0.3684	7.4700e-003	2,380.4785
<b>Maximum</b>	<b>2.1407</b>	<b>23.1694</b>	<b>14.9201</b>	<b>0.0331</b>	<b>7.4980</b>	<b>0.9630</b>	<b>8.4610</b>	<b>3.5365</b>	<b>0.8877</b>	<b>4.4242</b>	<b>0.0000</b>	<b>3,314.2226</b>	<b>3,314.2226</b>	<b>0.6529</b>	<b>0.1974</b>	<b>3,389.3559</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.1407	23.1694	14.9201	0.0331	7.4980	0.9630	8.4610	3.5365	0.8877	4.4242	0.0000	3,314.2226	3,314.2226	0.6529	0.1974	3,389.3559
2022	1.9589	14.0163	14.7242	0.0259	0.0586	0.6718	0.7304	0.0159	0.6517	0.6675	0.0000	2,369.0423	2,369.0423	0.3684	7.4700e-003	2,380.4785
<b>Maximum</b>	<b>2.1407</b>	<b>23.1694</b>	<b>14.9201</b>	<b>0.0331</b>	<b>7.4980</b>	<b>0.9630</b>	<b>8.4610</b>	<b>3.5365</b>	<b>0.8877</b>	<b>4.4242</b>	<b>0.0000</b>	<b>3,314.2226</b>	<b>3,314.2226</b>	<b>0.6529</b>	<b>0.1974</b>	<b>3,389.3559</b>



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	0.0315	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-003
Energy	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569
Mobile	8.0506	4.9278	29.3072	0.0363	2.7799	0.0418	2.8217	0.7421	0.0391	0.7812		3,717.677 1	3,717.677 1	0.5452	0.3493	3,835.382 1
<b>Total</b>	<b>8.0821</b>	<b>4.9286</b>	<b>29.3117</b>	<b>0.0363</b>	<b>2.7799</b>	<b>0.0418</b>	<b>2.8217</b>	<b>0.7421</b>	<b>0.0391</b>	<b>0.7813</b>		<b>3,718.537 3</b>	<b>3,718.537 3</b>	<b>0.5452</b>	<b>0.3493</b>	<b>3,836.247 8</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	0.0315	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-003
Energy	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569
Mobile	8.0427	4.9091	29.1802	0.0360	2.7521	0.0415	2.7936	0.7347	0.0388	0.7735		3,686.500 3	3,686.500 3	0.5438	0.3479	3,803.776 9
<b>Total</b>	<b>8.0743</b>	<b>4.9099</b>	<b>29.1847</b>	<b>0.0360</b>	<b>2.7521</b>	<b>0.0416</b>	<b>2.7936</b>	<b>0.7347</b>	<b>0.0389</b>	<b>0.7736</b>		<b>3,687.360 4</b>	<b>3,687.360 4</b>	<b>0.5438</b>	<b>0.3480</b>	<b>3,804.642 7</b>

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**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	0.10	0.38	0.43	0.85	1.00	0.67	0.99	1.00	0.66	0.98	0.00	0.84	0.84	0.25	0.38	0.82

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2021	8/13/2021	5	10	
2	Grading	Grading	8/14/2021	8/27/2021	5	10	
3	Building Construction	Building Construction	9/8/2021	2/22/2022	5	120	
4	Paving	Paving	8/28/2021	9/7/2021	5	7	
5	Architectural Coating	Architectural Coating	9/22/2021	3/8/2022	5	120	

**Acres of Grading (Site Preparation Phase): 9.38**

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 1.9**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,694; Non-Residential Outdoor: 565; Striped Parking Area: 720 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56

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

Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	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
Site Preparation	3	8.00	0.00	62.00	10.00	7.00	30.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	125.00	10.00	7.00	30.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	5.00	2.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.2 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					6.2697	0.0000	6.2697	3.0047	0.0000	3.0047			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>1.5558</b>	<b>17.4203</b>	<b>7.5605</b>	<b>0.0172</b>	<b>6.2697</b>	<b>0.7654</b>	<b>7.0351</b>	<b>3.0047</b>	<b>0.7041</b>	<b>3.7089</b>		<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</b>

**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	0.0508	1.4563	0.2772	5.8200e-003	0.1627	0.0232	0.1859	0.0446	0.0222	0.0668		616.4798	616.4798	2.5700e-003	0.0969	645.4180
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
Worker	0.0287	0.0159	0.2260	6.0000e-004	0.0609	3.5000e-004	0.0612	0.0161	3.2000e-004	0.0165		60.5667	60.5667	1.8600e-003	1.6000e-003	61.0904
<b>Total</b>	<b>0.0795</b>	<b>1.4722</b>	<b>0.5032</b>	<b>6.4200e-003</b>	<b>0.2235</b>	<b>0.0236</b>	<b>0.2471</b>	<b>0.0607</b>	<b>0.0225</b>	<b>0.0833</b>		<b>677.0465</b>	<b>677.0465</b>	<b>4.4300e-003</b>	<b>0.0985</b>	<b>706.5084</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.2 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					6.2697	0.0000	6.2697	3.0047	0.0000	3.0047			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>1.5558</b>	<b>17.4203</b>	<b>7.5605</b>	<b>0.0172</b>	<b>6.2697</b>	<b>0.7654</b>	<b>7.0351</b>	<b>3.0047</b>	<b>0.7041</b>	<b>3.7089</b>	<b>0.0000</b>	<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</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	0.0508	1.4563	0.2772	5.8200e-003	0.1627	0.0232	0.1859	0.0446	0.0222	0.0668		616.4798	616.4798	2.5700e-003	0.0969	645.4180
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
Worker	0.0287	0.0159	0.2260	6.0000e-004	0.0609	3.5000e-004	0.0612	0.0161	3.2000e-004	0.0165		60.5667	60.5667	1.8600e-003	1.6000e-003	61.0904
<b>Total</b>	<b>0.0795</b>	<b>1.4722</b>	<b>0.5032</b>	<b>6.4200e-003</b>	<b>0.2235</b>	<b>0.0236</b>	<b>0.2471</b>	<b>0.0607</b>	<b>0.0225</b>	<b>0.0833</b>		<b>677.0465</b>	<b>677.0465</b>	<b>4.4300e-003</b>	<b>0.0985</b>	<b>706.5084</b>



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.3 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					7.0939	0.0000	7.0939	3.4265	0.0000	3.4265			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>7.0939</b>	<b>0.9158</b>	<b>8.0097</b>	<b>3.4265</b>	<b>0.8425</b>	<b>4.2689</b>		<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</b>

**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	0.1025	2.9360	0.5588	0.0117	0.3280	0.0468	0.3748	0.0899	0.0448	0.1347		1,242.9028	1,242.9028	5.1900e-003	0.1954	1,301.2459
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
Worker	0.0358	0.0199	0.2825	7.5000e-004	0.0761	4.3000e-004	0.0765	0.0202	4.0000e-004	0.0206		75.7084	75.7084	2.3200e-003	2.0000e-003	76.3630
<b>Total</b>	<b>0.1383</b>	<b>2.9559</b>	<b>0.8413</b>	<b>0.0125</b>	<b>0.4041</b>	<b>0.0473</b>	<b>0.4513</b>	<b>0.1101</b>	<b>0.0452</b>	<b>0.1553</b>		<b>1,318.6112</b>	<b>1,318.6112</b>	<b>7.5100e-003</b>	<b>0.1974</b>	<b>1,377.6089</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.3 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					7.0939	0.0000	7.0939	3.4265	0.0000	3.4265			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>7.0939</b>	<b>0.9158</b>	<b>8.0097</b>	<b>3.4265</b>	<b>0.8425</b>	<b>4.2689</b>	<b>0.0000</b>	<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</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	0.1025	2.9360	0.5588	0.0117	0.3280	0.0468	0.3748	0.0899	0.0448	0.1347		1,242.9028	1,242.9028	5.1900e-003	0.1954	1,301.2459
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
Worker	0.0358	0.0199	0.2825	7.5000e-004	0.0761	4.3000e-004	0.0765	0.0202	4.0000e-004	0.0206		75.7084	75.7084	2.3200e-003	2.0000e-003	76.3630
<b>Total</b>	<b>0.1383</b>	<b>2.9559</b>	<b>0.8413</b>	<b>0.0125</b>	<b>0.4041</b>	<b>0.0473</b>	<b>0.4513</b>	<b>0.1101</b>	<b>0.0452</b>	<b>0.1553</b>		<b>1,318.6112</b>	<b>1,318.6112</b>	<b>7.5100e-003</b>	<b>0.1974</b>	<b>1,377.6089</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**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	0.0000
Vendor	5.4600e-003	0.1100	0.0336	4.1000e-004	0.0130	1.7300e-003	0.0147	3.7400e-003	1.6600e-003	5.4000e-003		42.9476	42.9476	2.8000e-004	6.5300e-003	44.9000
Worker	0.0179	9.9400e-003	0.1412	3.7000e-004	0.0380	2.2000e-004	0.0383	0.0101	2.0000e-004	0.0103		37.8542	37.8542	1.1600e-003	1.0000e-003	38.1815
<b>Total</b>	<b>0.0234</b>	<b>0.1200</b>	<b>0.1749</b>	<b>7.8000e-004</b>	<b>0.0510</b>	<b>1.9500e-003</b>	<b>0.0530</b>	<b>0.0138</b>	<b>1.8600e-003</b>	<b>0.0157</b>		<b>80.8018</b>	<b>80.8018</b>	<b>1.4400e-003</b>	<b>7.5300e-003</b>	<b>83.0815</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.4 Building Construction - 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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</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
Vendor	5.4600e-003	0.1100	0.0336	4.1000e-004	0.0130	1.7300e-003	0.0147	3.7400e-003	1.6600e-003	5.4000e-003		42.9476	42.9476	2.8000e-004	6.5300e-003	44.9000
Worker	0.0179	9.9400e-003	0.1412	3.7000e-004	0.0380	2.2000e-004	0.0383	0.0101	2.0000e-004	0.0103		37.8542	37.8542	1.1600e-003	1.0000e-003	38.1815
<b>Total</b>	<b>0.0234</b>	<b>0.1200</b>	<b>0.1749</b>	<b>7.8000e-004</b>	<b>0.0510</b>	<b>1.9500e-003</b>	<b>0.0530</b>	<b>0.0138</b>	<b>1.8600e-003</b>	<b>0.0157</b>		<b>80.8018</b>	<b>80.8018</b>	<b>1.4400e-003</b>	<b>7.5300e-003</b>	<b>83.0815</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.4 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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>		<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

**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	0.0000
Vendor	3.4800e-003	0.0942	0.0289	4.0000e-004	0.0130	9.1000e-004	0.0139	3.7400e-003	8.7000e-004	4.6100e-003		41.8561	41.8561	1.8000e-004	6.3700e-003	43.7574
Worker	0.0165	8.7400e-003	0.1294	3.6000e-004	0.0380	2.0000e-004	0.0382	0.0101	1.9000e-004	0.0103		36.8294	36.8294	1.0400e-003	9.2000e-004	37.1307
<b>Total</b>	<b>0.0200</b>	<b>0.1030</b>	<b>0.1583</b>	<b>7.6000e-004</b>	<b>0.0510</b>	<b>1.1100e-003</b>	<b>0.0522</b>	<b>0.0138</b>	<b>1.0600e-003</b>	<b>0.0149</b>		<b>78.6855</b>	<b>78.6855</b>	<b>1.2200e-003</b>	<b>7.2900e-003</b>	<b>80.8882</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.4 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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>	<b>0.0000</b>	<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</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
Vendor	3.4800e-003	0.0942	0.0289	4.0000e-004	0.0130	9.1000e-004	0.0139	3.7400e-003	8.7000e-004	4.6100e-003		41.8561	41.8561	1.8000e-004	6.3700e-003	43.7574
Worker	0.0165	8.7400e-003	0.1294	3.6000e-004	0.0380	2.0000e-004	0.0382	0.0101	1.9000e-004	0.0103		36.8294	36.8294	1.0400e-003	9.2000e-004	37.1307
<b>Total</b>	<b>0.0200</b>	<b>0.1030</b>	<b>0.1583</b>	<b>7.6000e-004</b>	<b>0.0510</b>	<b>1.1100e-003</b>	<b>0.0522</b>	<b>0.0138</b>	<b>1.0600e-003</b>	<b>0.0149</b>		<b>78.6855</b>	<b>78.6855</b>	<b>1.2200e-003</b>	<b>7.2900e-003</b>	<b>80.8882</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.7111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4850</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**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	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
Worker	0.0466	0.0258	0.3672	9.7000e-004	0.0989	5.6000e-004	0.0995	0.0262	5.2000e-004	0.0268		98.4209	98.4209	3.0200e-003	2.6000e-003	99.2719
<b>Total</b>	<b>0.0466</b>	<b>0.0258</b>	<b>0.3672</b>	<b>9.7000e-004</b>	<b>0.0989</b>	<b>5.6000e-004</b>	<b>0.0995</b>	<b>0.0262</b>	<b>5.2000e-004</b>	<b>0.0268</b>		<b>98.4209</b>	<b>98.4209</b>	<b>3.0200e-003</b>	<b>2.6000e-003</b>	<b>99.2719</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.5 Paving - 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	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.7111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4850</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</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
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
Worker	0.0466	0.0258	0.3672	9.7000e-004	0.0989	5.6000e-004	0.0995	0.0262	5.2000e-004	0.0268		98.4209	98.4209	3.0200e-003	2.6000e-003	99.2719
<b>Total</b>	<b>0.0466</b>	<b>0.0258</b>	<b>0.3672</b>	<b>9.7000e-004</b>	<b>0.0989</b>	<b>5.6000e-004</b>	<b>0.0995</b>	<b>0.0262</b>	<b>5.2000e-004</b>	<b>0.0268</b>		<b>98.4209</b>	<b>98.4209</b>	<b>3.0200e-003</b>	<b>2.6000e-003</b>	<b>99.2719</b>



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.6 Architectural Coating - 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					
Archit. Coating	0.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>0.3013</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**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	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
Worker	3.5800e-003	1.9900e-003	0.0283	7.0000e-005	7.6100e-003	4.0000e-005	7.6500e-003	2.0200e-003	4.0000e-005	2.0600e-003		7.5708	7.5708	2.3000e-004	2.0000e-004	7.6363
<b>Total</b>	<b>3.5800e-003</b>	<b>1.9900e-003</b>	<b>0.0283</b>	<b>7.0000e-005</b>	<b>7.6100e-003</b>	<b>4.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>		<b>7.5708</b>	<b>7.5708</b>	<b>2.3000e-004</b>	<b>2.0000e-004</b>	<b>7.6363</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.6 Architectural Coating - 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					
Archit. Coating	0.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>0.3013</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</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
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
Worker	3.5800e-003	1.9900e-003	0.0283	7.0000e-005	7.6100e-003	4.0000e-005	7.6500e-003	2.0200e-003	4.0000e-005	2.0600e-003		7.5708	7.5708	2.3000e-004	2.0000e-004	7.6363
<b>Total</b>	<b>3.5800e-003</b>	<b>1.9900e-003</b>	<b>0.0283</b>	<b>7.0000e-005</b>	<b>7.6100e-003</b>	<b>4.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>		<b>7.5708</b>	<b>7.5708</b>	<b>2.3000e-004</b>	<b>2.0000e-004</b>	<b>7.6363</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>0.2869</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	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
Worker	3.3100e-003	1.7500e-003	0.0259	7.0000e-005	7.6100e-003	4.0000e-005	7.6500e-003	2.0200e-003	4.0000e-005	2.0600e-003		7.3659	7.3659	2.1000e-004	1.8000e-004	7.4262
<b>Total</b>	<b>3.3100e-003</b>	<b>1.7500e-003</b>	<b>0.0259</b>	<b>7.0000e-005</b>	<b>7.6100e-003</b>	<b>4.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>		<b>7.3659</b>	<b>7.3659</b>	<b>2.1000e-004</b>	<b>1.8000e-004</b>	<b>7.4262</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**3.6 Architectural Coating - 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					
Archit. Coating	0.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>0.2869</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
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
Worker	3.3100e-003	1.7500e-003	0.0259	7.0000e-005	7.6100e-003	4.0000e-005	7.6500e-003	2.0200e-003	4.0000e-005	2.0600e-003		7.3659	7.3659	2.1000e-004	1.8000e-004	7.4262
<b>Total</b>	<b>3.3100e-003</b>	<b>1.7500e-003</b>	<b>0.0259</b>	<b>7.0000e-005</b>	<b>7.6100e-003</b>	<b>4.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>		<b>7.3659</b>	<b>7.3659</b>	<b>2.1000e-004</b>	<b>1.8000e-004</b>	<b>7.4262</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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	8.0427	4.9091	29.1802	0.0360	2.7521	0.0415	2.7936	0.7347	0.0388	0.7735		3,686.500 3	3,686.500 3	0.5438	0.3479	3,803.776 9
Unmitigated	8.0506	4.9278	29.3072	0.0363	2.7799	0.0418	2.8217	0.7421	0.0391	0.7812		3,717.677 1	3,717.677 1	0.5452	0.3493	3,835.382 1

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	3,258.00	3,258.00	3,258.00	1,314,406	1,301,262
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>3,258.00</b>	<b>3,258.00</b>	<b>3,258.00</b>	<b>1,314,406</b>	<b>1,301,262</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
Convenience Market with Gas	10.00	5.00	7.00	0.80	80.20	19.00	14	21	65
Parking Lot	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.499421	0.057115	0.178083	0.149064	0.035843	0.007506	0.018115	0.016711	0.000640	0.000558	0.031929	0.000615	0.004399
Parking Lot	0.499421	0.057115	0.178083	0.149064	0.035843	0.007506	0.018115	0.016711	0.000640	0.000558	0.031929	0.000615	0.004399

**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	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569
NaturalGas Unmitigated	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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					
Convenience Market with Gas Pumps	7.24054	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569
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
<b>Total</b>		<b>8.0000e-005</b>	<b>7.1000e-004</b>	<b>6.0000e-004</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.8518</b>	<b>0.8518</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8569</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					
Convenience Market with Gas Pumps	0.00724054	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569
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
<b>Total</b>		<b>8.0000e-005</b>	<b>7.1000e-004</b>	<b>6.0000e-004</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.8518</b>	<b>0.8518</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8569</b>

**6.0 Area Detail**

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	0.0315	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-003
Unmitigated	0.0315	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-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	lb/day										lb/day					
Architectural Coating	2.7100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-003
<b>Total</b>	<b>0.0315</b>	<b>4.0000e-005</b>	<b>3.8900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>8.3200e-003</b>	<b>8.3200e-003</b>	<b>2.0000e-005</b>		<b>8.8600e-003</b>



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	2.7100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-003
<b>Total</b>	<b>0.0315</b>	<b>4.0000e-005</b>	<b>3.8900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>8.3200e-003</b>	<b>8.3200e-003</b>	<b>2.0000e-005</b>		<b>8.8600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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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Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**Lincoln Square Project - Commercial**

**Yolo/Solano AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	30.00	Space	1.90	12,000.00	0
Convenience Market with Gas Pumps	8.00	Pump	0.03	1,129.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	55
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<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 - Lot acreage adjusted per AQ Questionnaire.

Construction Phase - Construction phase timing adjusted based on applicant-provided AQ Questionnaire.

Trips and VMT - Site prep and grading phase haul trip lengths adjusted per applicant-provided information.

Grading -

Mobile Land Use Mitigation -

Water Mitigation - Outdoor water conservation strategy applied in order to reflect compliance with MWEL0.

Vehicle Trips - Trip generation rate adjusted based on information provided by the project-specific traffic consultant.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	120.00

## Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

tblConstructionPhase	NumDays	200.00	120.00
tblConstructionPhase	NumDays	4.00	10.00
tblConstructionPhase	NumDays	10.00	7.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	PhaseEndDate	6/13/2022	3/8/2022
tblConstructionPhase	PhaseEndDate	5/16/2022	2/22/2022
tblConstructionPhase	PhaseEndDate	8/9/2021	8/27/2021
tblConstructionPhase	PhaseEndDate	5/30/2022	9/7/2021
tblConstructionPhase	PhaseEndDate	8/3/2021	8/13/2021
tblConstructionPhase	PhaseStartDate	5/31/2022	9/22/2021
tblConstructionPhase	PhaseStartDate	8/10/2021	9/8/2021
tblConstructionPhase	PhaseStartDate	8/4/2021	8/14/2021
tblConstructionPhase	PhaseStartDate	5/17/2022	8/28/2021
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LotAcreage	0.27	1.90
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	63.00	62.00
tblVehicleTrips	ST_TR	322.50	407.25
tblVehicleTrips	SU_TR	322.50	407.25
tblVehicleTrips	WD_TR	322.50	407.25

**2.0 Emissions Summary**

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.1386	23.4117	14.9043	0.0330	7.4980	0.9630	8.4610	3.5365	0.8877	4.4243	0.0000	3,306.9695	3,306.9695	0.6532	0.1978	3,382.2310
2022	1.9569	14.0262	14.7106	0.0258	0.0586	0.6718	0.7304	0.0159	0.6517	0.6675	0.0000	2,364.5861	2,364.5861	0.3686	7.6600e-003	2,376.0844
<b>Maximum</b>	<b>2.1386</b>	<b>23.4117</b>	<b>14.9043</b>	<b>0.0330</b>	<b>7.4980</b>	<b>0.9630</b>	<b>8.4610</b>	<b>3.5365</b>	<b>0.8877</b>	<b>4.4243</b>	<b>0.0000</b>	<b>3,306.9695</b>	<b>3,306.9695</b>	<b>0.6532</b>	<b>0.1978</b>	<b>3,382.2310</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.1386	23.4117	14.9043	0.0330	7.4980	0.9630	8.4610	3.5365	0.8877	4.4243	0.0000	3,306.9695	3,306.9695	0.6532	0.1978	3,382.2310
2022	1.9569	14.0262	14.7106	0.0258	0.0586	0.6718	0.7304	0.0159	0.6517	0.6675	0.0000	2,364.5861	2,364.5861	0.3686	7.6600e-003	2,376.0844
<b>Maximum</b>	<b>2.1386</b>	<b>23.4117</b>	<b>14.9043</b>	<b>0.0330</b>	<b>7.4980</b>	<b>0.9630</b>	<b>8.4610</b>	<b>3.5365</b>	<b>0.8877</b>	<b>4.4243</b>	<b>0.0000</b>	<b>3,306.9695</b>	<b>3,306.9695</b>	<b>0.6532</b>	<b>0.1978</b>	<b>3,382.2310</b>



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	0.0315	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-003
Energy	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569
Mobile	5.7906	5.6587	36.8842	0.0341	2.7799	0.0419	2.8218	0.7421	0.0393	0.7814		3,498.9048	3,498.9048	0.7188	0.3877	3,632.4219
<b>Total</b>	<b>5.8221</b>	<b>5.6594</b>	<b>36.8887</b>	<b>0.0341</b>	<b>2.7799</b>	<b>0.0420</b>	<b>2.8219</b>	<b>0.7421</b>	<b>0.0393</b>	<b>0.7814</b>		<b>3,499.7650</b>	<b>3,499.7650</b>	<b>0.7189</b>	<b>0.3878</b>	<b>3,633.2876</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	0.0315	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-003
Energy	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569
Mobile	5.7823	5.6371	36.7647	0.0338	2.7521	0.0417	2.7938	0.7347	0.0390	0.7737		3,470.1054	3,470.1054	0.7174	0.3863	3,603.1636
<b>Total</b>	<b>5.8138</b>	<b>5.6379</b>	<b>36.7692</b>	<b>0.0338</b>	<b>2.7521</b>	<b>0.0417</b>	<b>2.7938</b>	<b>0.7347</b>	<b>0.0391</b>	<b>0.7737</b>		<b>3,470.9656</b>	<b>3,470.9656</b>	<b>0.7175</b>	<b>0.3863</b>	<b>3,604.0294</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	0.14	0.38	0.32	0.82	1.00	0.67	0.99	1.00	0.66	0.98	0.00	0.82	0.82	0.20	0.37	0.81

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2021	8/13/2021	5	10	
2	Grading	Grading	8/14/2021	8/27/2021	5	10	
3	Building Construction	Building Construction	9/8/2021	2/22/2022	5	120	
4	Paving	Paving	8/28/2021	9/7/2021	5	7	
5	Architectural Coating	Architectural Coating	9/22/2021	3/8/2022	5	120	

**Acres of Grading (Site Preparation Phase): 9.38**

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 1.9**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,694; Non-Residential Outdoor: 565; Striped Parking Area: 720 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	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
Site Preparation	3	8.00	0.00	62.00	10.00	7.00	30.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	125.00	10.00	7.00	30.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	5.00	2.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.2 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					6.2697	0.0000	6.2697	3.0047	0.0000	3.0047			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>1.5558</b>	<b>17.4203</b>	<b>7.5605</b>	<b>0.0172</b>	<b>6.2697</b>	<b>0.7654</b>	<b>7.0351</b>	<b>3.0047</b>	<b>0.7041</b>	<b>3.7089</b>		<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</b>

**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	0.0500	1.5740	0.2818	5.8300e-003	0.1627	0.0232	0.1859	0.0446	0.0222	0.0668		616.7206	616.7206	2.5300e-003	0.0969	645.6699
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
Worker	0.0260	0.0199	0.2034	5.4000e-004	0.0609	3.5000e-004	0.0612	0.0161	3.2000e-004	0.0165		54.3759	54.3759	2.1500e-003	1.8600e-003	54.9842
<b>Total</b>	<b>0.0760</b>	<b>1.5939</b>	<b>0.4852</b>	<b>6.3700e-003</b>	<b>0.2235</b>	<b>0.0236</b>	<b>0.2471</b>	<b>0.0607</b>	<b>0.0226</b>	<b>0.0833</b>		<b>671.0964</b>	<b>671.0964</b>	<b>4.6800e-003</b>	<b>0.0988</b>	<b>700.6541</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.2 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					6.2697	0.0000	6.2697	3.0047	0.0000	3.0047			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>1.5558</b>	<b>17.4203</b>	<b>7.5605</b>	<b>0.0172</b>	<b>6.2697</b>	<b>0.7654</b>	<b>7.0351</b>	<b>3.0047</b>	<b>0.7041</b>	<b>3.7089</b>	<b>0.0000</b>	<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</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	0.0500	1.5740	0.2818	5.8300e-003	0.1627	0.0232	0.1859	0.0446	0.0222	0.0668		616.7206	616.7206	2.5300e-003	0.0969	645.6699
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
Worker	0.0260	0.0199	0.2034	5.4000e-004	0.0609	3.5000e-004	0.0612	0.0161	3.2000e-004	0.0165		54.3759	54.3759	2.1500e-003	1.8600e-003	54.9842
<b>Total</b>	<b>0.0760</b>	<b>1.5939</b>	<b>0.4852</b>	<b>6.3700e-003</b>	<b>0.2235</b>	<b>0.0236</b>	<b>0.2471</b>	<b>0.0607</b>	<b>0.0226</b>	<b>0.0833</b>		<b>671.0964</b>	<b>671.0964</b>	<b>4.6800e-003</b>	<b>0.0988</b>	<b>700.6541</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.3 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					7.0939	0.0000	7.0939	3.4265	0.0000	3.4265			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>7.0939</b>	<b>0.9158</b>	<b>8.0097</b>	<b>3.4265</b>	<b>0.8425</b>	<b>4.2689</b>		<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</b>

**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	0.1007	3.1733	0.5682	0.0118	0.3280	0.0469	0.3748	0.0899	0.0448	0.1347		1,243.3882	1,243.3882	5.1000e-003	0.1954	1,301.7537
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
Worker	0.0325	0.0249	0.2543	6.7000e-004	0.0761	4.3000e-004	0.0765	0.0202	4.0000e-004	0.0206		67.9698	67.9698	2.6900e-003	2.3300e-003	68.7303
<b>Total</b>	<b>0.1332</b>	<b>3.1982</b>	<b>0.8224</b>	<b>0.0124</b>	<b>0.4041</b>	<b>0.0473</b>	<b>0.4513</b>	<b>0.1101</b>	<b>0.0452</b>	<b>0.1553</b>		<b>1,311.3581</b>	<b>1,311.3581</b>	<b>7.7900e-003</b>	<b>0.1978</b>	<b>1,370.4840</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.3 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					7.0939	0.0000	7.0939	3.4265	0.0000	3.4265			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.611 4	1,995.611 4	0.6454		2,011.747 0
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>7.0939</b>	<b>0.9158</b>	<b>8.0097</b>	<b>3.4265</b>	<b>0.8425</b>	<b>4.2689</b>	<b>0.0000</b>	<b>1,995.611 4</b>	<b>1,995.611 4</b>	<b>0.6454</b>		<b>2,011.747 0</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	0.1007	3.1733	0.5682	0.0118	0.3280	0.0469	0.3748	0.0899	0.0448	0.1347			1,243.388 2	1,243.388 2	5.1000e- 003	0.1954	1,301.753 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	0.0000
Worker	0.0325	0.0249	0.2543	6.7000e- 004	0.0761	4.3000e- 004	0.0765	0.0202	4.0000e- 004	0.0206			67.9698	67.9698	2.6900e- 003	2.3300e- 003	68.7303
<b>Total</b>	<b>0.1332</b>	<b>3.1982</b>	<b>0.8224</b>	<b>0.0124</b>	<b>0.4041</b>	<b>0.0473</b>	<b>0.4513</b>	<b>0.1101</b>	<b>0.0452</b>	<b>0.1553</b>			<b>1,311.358 1</b>	<b>1,311.358 1</b>	<b>7.7900e- 003</b>	<b>0.1978</b>	<b>1,370.484 0</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**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	0.0000
Vendor	5.3300e-003	0.1186	0.0348	4.1000e-004	0.0130	1.7400e-003	0.0147	3.7400e-003	1.6600e-003	5.4100e-003		42.9819	42.9819	2.7000e-004	6.5400e-003	44.9375
Worker	0.0163	0.0125	0.1271	3.4000e-004	0.0380	2.2000e-004	0.0383	0.0101	2.0000e-004	0.0103		33.9849	33.9849	1.3400e-003	1.1600e-003	34.3652
<b>Total</b>	<b>0.0216</b>	<b>0.1310</b>	<b>0.1619</b>	<b>7.5000e-004</b>	<b>0.0510</b>	<b>1.9600e-003</b>	<b>0.0530</b>	<b>0.0138</b>	<b>1.8600e-003</b>	<b>0.0157</b>		<b>76.9668</b>	<b>76.9668</b>	<b>1.6100e-003</b>	<b>7.7000e-003</b>	<b>79.3026</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.4 Building Construction - 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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</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
Vendor	5.3300e-003	0.1186	0.0348	4.1000e-004	0.0130	1.7400e-003	0.0147	3.7400e-003	1.6600e-003	5.4100e-003		42.9819	42.9819	2.7000e-004	6.5400e-003	44.9375
Worker	0.0163	0.0125	0.1271	3.4000e-004	0.0380	2.2000e-004	0.0383	0.0101	2.0000e-004	0.0103		33.9849	33.9849	1.3400e-003	1.1600e-003	34.3652
<b>Total</b>	<b>0.0216</b>	<b>0.1310</b>	<b>0.1619</b>	<b>7.5000e-004</b>	<b>0.0510</b>	<b>1.9600e-003</b>	<b>0.0530</b>	<b>0.0138</b>	<b>1.8600e-003</b>	<b>0.0157</b>		<b>76.9668</b>	<b>76.9668</b>	<b>1.6100e-003</b>	<b>7.7000e-003</b>	<b>79.3026</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.4 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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>		<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

**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	0.0000
Vendor	3.3500e-003	0.1016	0.0300	4.0000e-004	0.0130	9.2000e-004	0.0139	3.7400e-003	8.8000e-004	4.6200e-003		41.9052	41.9052	1.8000e-004	6.3800e-003	43.8103
Worker	0.0150	0.0109	0.1172	3.3000e-004	0.0380	2.0000e-004	0.0382	0.0101	1.9000e-004	0.0103		33.0750	33.0750	1.2100e-003	1.0700e-003	33.4249
<b>Total</b>	<b>0.0184</b>	<b>0.1125</b>	<b>0.1472</b>	<b>7.3000e-004</b>	<b>0.0510</b>	<b>1.1200e-003</b>	<b>0.0522</b>	<b>0.0138</b>	<b>1.0700e-003</b>	<b>0.0149</b>		<b>74.9802</b>	<b>74.9802</b>	<b>1.3900e-003</b>	<b>7.4500e-003</b>	<b>77.2352</b>



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.4 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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>	<b>0.0000</b>	<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</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
Vendor	3.3500e-003	0.1016	0.0300	4.0000e-004	0.0130	9.2000e-004	0.0139	3.7400e-003	8.8000e-004	4.6200e-003		41.9052	41.9052	1.8000e-004	6.3800e-003	43.8103
Worker	0.0150	0.0109	0.1172	3.3000e-004	0.0380	2.0000e-004	0.0382	0.0101	1.9000e-004	0.0103		33.0750	33.0750	1.2100e-003	1.0700e-003	33.4249
<b>Total</b>	<b>0.0184</b>	<b>0.1125</b>	<b>0.1472</b>	<b>7.3000e-004</b>	<b>0.0510</b>	<b>1.1200e-003</b>	<b>0.0522</b>	<b>0.0138</b>	<b>1.0700e-003</b>	<b>0.0149</b>		<b>74.9802</b>	<b>74.9802</b>	<b>1.3900e-003</b>	<b>7.4500e-003</b>	<b>77.2352</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.7111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4850</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**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	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
Worker	0.0423	0.0324	0.3305	8.7000e-004	0.0989	5.6000e-004	0.0995	0.0262	5.2000e-004	0.0268		88.3608	88.3608	3.4900e-003	3.0200e-003	89.3494
<b>Total</b>	<b>0.0423</b>	<b>0.0324</b>	<b>0.3305</b>	<b>8.7000e-004</b>	<b>0.0989</b>	<b>5.6000e-004</b>	<b>0.0995</b>	<b>0.0262</b>	<b>5.2000e-004</b>	<b>0.0268</b>		<b>88.3608</b>	<b>88.3608</b>	<b>3.4900e-003</b>	<b>3.0200e-003</b>	<b>89.3494</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.5 Paving - 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	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.7111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4850</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</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
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
Worker	0.0423	0.0324	0.3305	8.7000e-004	0.0989	5.6000e-004	0.0995	0.0262	5.2000e-004	0.0268		88.3608	88.3608	3.4900e-003	3.0200e-003	89.3494
<b>Total</b>	<b>0.0423</b>	<b>0.0324</b>	<b>0.3305</b>	<b>8.7000e-004</b>	<b>0.0989</b>	<b>5.6000e-004</b>	<b>0.0995</b>	<b>0.0262</b>	<b>5.2000e-004</b>	<b>0.0268</b>		<b>88.3608</b>	<b>88.3608</b>	<b>3.4900e-003</b>	<b>3.0200e-003</b>	<b>89.3494</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.6 Architectural Coating - 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					
Archit. Coating	0.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>0.3013</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**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	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
Worker	3.2500e-003	2.4900e-003	0.0254	7.0000e-005	7.6100e-003	4.0000e-005	7.6500e-003	2.0200e-003	4.0000e-005	2.0600e-003		6.7970	6.7970	2.7000e-004	2.3000e-004	6.8730
<b>Total</b>	<b>3.2500e-003</b>	<b>2.4900e-003</b>	<b>0.0254</b>	<b>7.0000e-005</b>	<b>7.6100e-003</b>	<b>4.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>		<b>6.7970</b>	<b>6.7970</b>	<b>2.7000e-004</b>	<b>2.3000e-004</b>	<b>6.8730</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.6 Architectural Coating - 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					
Archit. Coating	0.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>0.3013</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</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
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
Worker	3.2500e-003	2.4900e-003	0.0254	7.0000e-005	7.6100e-003	4.0000e-005	7.6500e-003	2.0200e-003	4.0000e-005	2.0600e-003		6.7970	6.7970	2.7000e-004	2.3000e-004	6.8730
<b>Total</b>	<b>3.2500e-003</b>	<b>2.4900e-003</b>	<b>0.0254</b>	<b>7.0000e-005</b>	<b>7.6100e-003</b>	<b>4.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>		<b>6.7970</b>	<b>6.7970</b>	<b>2.7000e-004</b>	<b>2.3000e-004</b>	<b>6.8730</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>0.2869</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	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
Worker	3.0100e-003	2.1900e-003	0.0234	7.0000e-005	7.6100e-003	4.0000e-005	7.6500e-003	2.0200e-003	4.0000e-005	2.0600e-003		6.6150	6.6150	2.4000e-004	2.1000e-004	6.6850
<b>Total</b>	<b>3.0100e-003</b>	<b>2.1900e-003</b>	<b>0.0234</b>	<b>7.0000e-005</b>	<b>7.6100e-003</b>	<b>4.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>		<b>6.6150</b>	<b>6.6150</b>	<b>2.4000e-004</b>	<b>2.1000e-004</b>	<b>6.6850</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**3.6 Architectural Coating - 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					
Archit. Coating	0.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>0.2869</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
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
Worker	3.0100e-003	2.1900e-003	0.0234	7.0000e-005	7.6100e-003	4.0000e-005	7.6500e-003	2.0200e-003	4.0000e-005	2.0600e-003		6.6150	6.6150	2.4000e-004	2.1000e-004	6.6850
<b>Total</b>	<b>3.0100e-003</b>	<b>2.1900e-003</b>	<b>0.0234</b>	<b>7.0000e-005</b>	<b>7.6100e-003</b>	<b>4.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>		<b>6.6150</b>	<b>6.6150</b>	<b>2.4000e-004</b>	<b>2.1000e-004</b>	<b>6.6850</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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	5.7823	5.6371	36.7647	0.0338	2.7521	0.0417	2.7938	0.7347	0.0390	0.7737		3,470.1054	3,470.1054	0.7174	0.3863	3,603.1636
Unmitigated	5.7906	5.6587	36.8842	0.0341	2.7799	0.0419	2.8218	0.7421	0.0393	0.7814		3,498.9048	3,498.9048	0.7188	0.3877	3,632.4219

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	3,258.00	3,258.00	3,258.00	1,314,406	1,301,262
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>3,258.00</b>	<b>3,258.00</b>	<b>3,258.00</b>	<b>1,314,406</b>	<b>1,301,262</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
Convenience Market with Gas	10.00	5.00	7.00	0.80	80.20	19.00	14	21	65
Parking Lot	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**



Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.499421	0.057115	0.178083	0.149064	0.035843	0.007506	0.018115	0.016711	0.000640	0.000558	0.031929	0.000615	0.004399
Parking Lot	0.499421	0.057115	0.178083	0.149064	0.035843	0.007506	0.018115	0.016711	0.000640	0.000558	0.031929	0.000615	0.004399

**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	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569
NaturalGas Unmitigated	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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					
Convenience Market with Gas Pumps	7.24054	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569
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
<b>Total</b>		<b>8.0000e-005</b>	<b>7.1000e-004</b>	<b>6.0000e-004</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.8518</b>	<b>0.8518</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8569</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					
Convenience Market with Gas Pumps	0.00724054	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8518	0.8518	2.0000e-005	2.0000e-005	0.8569
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
<b>Total</b>		<b>8.0000e-005</b>	<b>7.1000e-004</b>	<b>6.0000e-004</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.8518</b>	<b>0.8518</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8569</b>

**6.0 Area Detail**

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	0.0315	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-003
Unmitigated	0.0315	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-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	lb/day										lb/day					
Architectural Coating	2.7100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-003
<b>Total</b>	<b>0.0315</b>	<b>4.0000e-005</b>	<b>3.8900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>8.3200e-003</b>	<b>8.3200e-003</b>	<b>2.0000e-005</b>		<b>8.8600e-003</b>

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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	2.7100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	0.0284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	3.6000e-004	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			8.3200e-003	8.3200e-003	2.0000e-005		8.8600e-003
<b>Total</b>	<b>0.0315</b>	<b>4.0000e-005</b>	<b>3.8900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>8.3200e-003</b>	<b>8.3200e-003</b>	<b>2.0000e-005</b>		<b>8.8600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Lincoln Square Project - Commercial - Yolo/Solano AQMD Air District, 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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### Lincoln Square Project - Commercial

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

#### Yolo/Solano AQMD Air District, Mitigation Report

#### Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### OFFROAD Equipment Mitigation

**Lincoln Square Project - Commercial**

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

### Lincoln Square Project - Commercial

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.28000E-002	8.88300E-002	1.08960E-001	1.80000E-004	5.35000E-003	5.35000E-003	0.00000E+000	1.53195E+001	1.53195E+001	1.03000E-003	0.00000E+000	1.53453E+001
Cement and Mortar Mixers	1.50000E-004	9.70000E-004	8.10000E-004	0.00000E+000	4.00000E-005	4.00000E-005	0.00000E+000	1.20300E-001	1.20300E-001	1.00000E-005	0.00000E+000	1.20610E-001
Cranes	1.80300E-002	2.08990E-001	8.79700E-002	2.60000E-004	8.54000E-003	7.86000E-003	0.00000E+000	2.28107E+001	2.28107E+001	7.38000E-003	0.00000E+000	2.29952E+001
Forklifts	5.60000E-003	5.13400E-002	5.23600E-002	7.00000E-005	3.57000E-003	3.29000E-003	0.00000E+000	6.04311E+000	6.04311E+000	1.95000E-003	0.00000E+000	6.09197E+000
Generator Sets	2.09400E-002	1.85570E-001	2.20920E-001	3.90000E-004	9.68000E-003	9.68000E-003	0.00000E+000	3.39125E+001	3.39125E+001	1.69000E-003	0.00000E+000	3.39548E+001
Graders	4.53000E-003	5.92500E-002	1.76700E-002	7.00000E-005	1.88000E-003	1.73000E-003	0.00000E+000	5.82126E+000	5.82126E+000	1.88000E-003	0.00000E+000	5.86833E+000
Pavers	6.50000E-004	6.81000E-003	7.63000E-003	1.00000E-005	3.30000E-004	3.00000E-004	0.00000E+000	1.08366E+000	1.08366E+000	3.50000E-004	0.00000E+000	1.09243E+000
Paving Equipment	6.70000E-004	6.79000E-003	8.89000E-003	1.00000E-005	3.40000E-004	3.10000E-004	0.00000E+000	1.25245E+000	1.25245E+000	4.10000E-004	0.00000E+000	1.26258E+000
Rollers	5.80000E-004	5.89000E-003	5.76000E-003	1.00000E-005	3.60000E-004	3.30000E-004	0.00000E+000	7.05920E-001	7.05920E-001	2.30000E-004	0.00000E+000	7.11630E-001
Rubber Tired Dozers	9.81000E-003	1.02860E-001	3.78500E-002	8.00000E-005	4.99000E-003	4.59000E-003	0.00000E+000	7.03651E+000	7.03651E+000	2.28000E-003	0.00000E+000	7.09341E+000
Tractors/Loaders/Backhoes	1.13400E-002	1.14960E-001	1.40390E-001	1.90000E-004	6.66000E-003	6.12000E-003	0.00000E+000	1.69968E+001	1.69968E+001	5.50000E-003	0.00000E+000	1.71342E+001
Welders	5.30400E-002	2.69050E-001	3.08110E-001	4.60000E-004	1.27700E-002	1.27700E-002	0.00000E+000	3.38797E+001	3.38797E+001	4.30000E-003	0.00000E+000	3.39873E+001



### Lincoln Square Project - Commercial

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.28000E-002	8.88300E-002	1.08960E-001	1.80000E-004	5.35000E-003	5.35000E-003	0.00000E+000	1.53195E+001	1.53195E+001	1.03000E-003	0.00000E+000	1.53453E+001
Cement and Mortar Mixers	1.50000E-004	9.70000E-004	8.10000E-004	0.00000E+000	4.00000E-005	4.00000E-005	0.00000E+000	1.20300E-001	1.20300E-001	1.00000E-005	0.00000E+000	1.20610E-001
Cranes	1.80300E-002	2.08990E-001	8.79700E-002	2.60000E-004	8.54000E-003	7.86000E-003	0.00000E+000	2.28107E+001	2.28107E+001	7.38000E-003	0.00000E+000	2.29951E+001
Forklifts	5.60000E-003	5.13400E-002	5.23600E-002	7.00000E-005	3.57000E-003	3.29000E-003	0.00000E+000	6.04310E+000	6.04310E+000	1.95000E-003	0.00000E+000	6.09196E+000
Generator Sets	2.09400E-002	1.85570E-001	2.20920E-001	3.90000E-004	9.68000E-003	9.68000E-003	0.00000E+000	3.39124E+001	3.39124E+001	1.69000E-003	0.00000E+000	3.39548E+001
Graders	4.53000E-003	5.92500E-002	1.76700E-002	7.00000E-005	1.88000E-003	1.73000E-003	0.00000E+000	5.82125E+000	5.82125E+000	1.88000E-003	0.00000E+000	5.86832E+000
Pavers	6.50000E-004	6.81000E-003	7.63000E-003	1.00000E-005	3.30000E-004	3.00000E-004	0.00000E+000	1.08366E+000	1.08366E+000	3.50000E-004	0.00000E+000	1.09242E+000
Paving Equipment	6.70000E-004	6.79000E-003	8.89000E-003	1.00000E-005	3.40000E-004	3.10000E-004	0.00000E+000	1.25245E+000	1.25245E+000	4.10000E-004	0.00000E+000	1.26258E+000
Rollers	5.80000E-004	5.89000E-003	5.76000E-003	1.00000E-005	3.60000E-004	3.30000E-004	0.00000E+000	7.05920E-001	7.05920E-001	2.30000E-004	0.00000E+000	7.11630E-001
Rubber Tired Dozers	9.81000E-003	1.02860E-001	3.78500E-002	8.00000E-005	4.99000E-003	4.59000E-003	0.00000E+000	7.03650E+000	7.03650E+000	2.28000E-003	0.00000E+000	7.09340E+000
Tractors/Loaders/Backhoes	1.13400E-002	1.14960E-001	1.40390E-001	1.90000E-004	6.66000E-003	6.12000E-003	0.00000E+000	1.69968E+001	1.69968E+001	5.50000E-003	0.00000E+000	1.71342E+001
Welders	5.30400E-002	2.69050E-001	3.08110E-001	4.60000E-004	1.27700E-002	1.27700E-002	0.00000E+000	3.38797E+001	3.38797E+001	4.30000E-003	0.00000E+000	3.39872E+001

### Lincoln Square Project - Commercial

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.30552E-006	1.30552E-006	0.00000E+000	0.00000E+000	1.30333E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.31517E-006	1.31517E-006	0.00000E+000	0.00000E+000	1.30462E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.65478E-006	1.65478E-006	0.00000E+000	0.00000E+000	1.64151E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17804E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.71784E-006	1.71784E-006	0.00000E+000	0.00000E+000	1.70406E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.15390E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.42116E-006	1.42116E-006	0.00000E+000	0.00000E+000	1.40976E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17669E-006	1.17669E-006	0.00000E+000	0.00000E+000	1.16726E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.17691E-006

#### Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction		

### Lincoln Square Project - Commercial

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

No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.04	0.02	0.04	0.02	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.03	0.02	0.03	0.02	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

#### Operational Percent Reduction Summary

### Lincoln Square Project - Commercial

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.13	0.39	0.36	0.96	0.66	0.70	0.00	0.83	0.83	0.21	0.37	0.81
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.68	3.90	0.36	0.00	1.94
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.06	0.25		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

**Lincoln Square Project - Commercial**

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

Yes	Neighborhood Enhancements	Improve Pedestrian Network	1.00	Project Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.01			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.01			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	4.50			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00			2.00

### Lincoln Square Project - Commercial

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

No	Commuter	Provide Ride Sharing Program	10.00		
	Commuter	Commuter Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.01		

#### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	50.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

#### Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

**Lincoln Square Project - Commercial**

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	0.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

**Solid Waste Mitigation**

### Lincoln Square Project - Commercial

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	



HARP2 - HRACalc (dated 19044) 9/23/2021 11:23:04 AM - Output Log

GLCs loaded successfully  
Pollutants loaded successfully  
\*\*\*\*\*

RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: All  
Calculation Method: HighEnd

\*\*\*\*\*  
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25  
Total Exposure Duration: 30

Exposure Duration Bin Distribution  
3rd Trimester Bin: 0.25  
0<2 Years Bin: 2  
2<9 Years Bin: 0  
2<16 Years Bin: 14  
16<30 Years Bin: 14  
16 to 70 Years Bin: 0

\*\*\*\*\*  
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: False  
Dermal: False  
Mother's milk: False  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*  
INHALATION

Daily breathing rate: LongTerm24HR

\*\*Worker Adjustment Factors\*\*

Worker adjustment factors enabled: NO

\*\*Fraction at time at home\*\*

3rd Trimester to 16 years: OFF

16 years to 70 years: ON

\*\*\*\*\*

#### TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk saved to: C:\Users\bshea\Desktop\HARP\lincoln square gdf

1\_CancerRisk.csv

Calculating chronic risk

Chronic risk saved to: C:\Users\bshea\Desktop\HARP\lincoln square gdf

1\_NCChronicRisk.csv

Calculating acute risk

Acute risk saved to: C:\Users\bshea\Desktop\HARP\lincoln square gdf

1\_NCAcuteRisk.csv

HRA ran successfully

## Gasoline Dispensing Facility Operations

Project Name: Lincoln Square Gas Station  
 Author: Brie Shea (Raney)  
 Date: 9/23/2021

Instructions: Input project information into green cells

### Inputs

Throughput (gallons/year): 2,300,000 per Commercial AQ Questionnaire

#### AERMOD Results

	Average Concentration (ug/m <sup>3</sup> )	Highest Hour (ug/m <sup>3</sup> )	
Loading	172.69935	8250.10674	data from 9/23/2021
Breathing	172.71125	8250.47619	
Refueling	167.90365	18288.02853	
Spillage	172.78892	21825.39597	

### Outputs

VOC emissions (lbs/day) 5.98

#### Info for HARP

Pollutant	Emission Source	Average Concentration (ug/m <sup>3</sup> )	Highest Hour (ug/m <sup>3</sup> )
Benzene	Loading	0.001439719	0.068777554
	Breathing	0.000428517	0.020470427
	Refueling	0.006998699	0.76229672
	Spillage	0.024007769	3.032480644
Ethyl Benzene	Loading	0.007678504	0.366813619
	Breathing	0.002285426	0.109175609
	Refueling	0.037326393	4.065582506
	Spillage	0.03841243	4.85196903
Toluene	Loading	0.038392518	1.834068094
	Breathing	0.011427132	0.545878044
	Refueling	0.186631966	20.32791253
	Spillage	0.192062149	24.25984515
Xylenes	Loading	0.011517755	0.550220428
	Breathing	0.00342814	0.163763413
	Refueling	0.05598959	6.09837376
	Spillage	0.057618645	7.277953545