

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Blossom Ridge  
Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	32.00	Dwelling Unit	9.40	57,600.00	85

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2024
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<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 - actual lot acreage

Construction Phase - one detached garage to be demolished

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	PhaseEndDate	9/23/2022	9/2/2022
tblLandUse	LotAcreage	10.39	9.40

**2.0 Emissions Summary**

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**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	3.2353	33.1164	21.0371	0.0399	19.7939	1.6133	21.4073	10.1388	1.4843	11.6230	0.0000	3,855.689 4	3,855.689 4	1.1961	0.0116	3,882.925 7
2023	36.2402	14.5432	16.6134	0.0283	0.1141	0.7010	0.8103	0.0303	0.6596	0.6890	0.0000	2,700.871 5	2,700.871 5	0.7169	0.0111	2,719.467 5
<b>Maximum</b>	<b>36.2402</b>	<b>33.1164</b>	<b>21.0371</b>	<b>0.0399</b>	<b>19.7939</b>	<b>1.6133</b>	<b>21.4073</b>	<b>10.1388</b>	<b>1.4843</b>	<b>11.6230</b>	<b>0.0000</b>	<b>3,855.689 4</b>	<b>3,855.689 4</b>	<b>1.1961</b>	<b>0.0116</b>	<b>3,882.925 7</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	3.2353	33.1164	21.0371	0.0399	19.7939	1.6133	21.4073	10.1388	1.4843	11.6230	0.0000	3,855.689 4	3,855.689 4	1.1961	0.0116	3,882.925 7
2023	36.2402	14.5432	16.6134	0.0283	0.1141	0.7010	0.8103	0.0303	0.6596	0.6890	0.0000	2,700.871 5	2,700.871 5	0.7169	0.0111	2,719.467 5
<b>Maximum</b>	<b>36.2402</b>	<b>33.1164</b>	<b>21.0371</b>	<b>0.0399</b>	<b>19.7939</b>	<b>1.6133</b>	<b>21.4073</b>	<b>10.1388</b>	<b>1.4843</b>	<b>11.6230</b>	<b>0.0000</b>	<b>3,855.689 4</b>	<b>3,855.689 4</b>	<b>1.1961</b>	<b>0.0116</b>	<b>3,882.925 7</b>



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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5095	0.0304	2.6389	1.4000e-004		0.0146	0.0146		0.0146	0.0146	0.0000	4.7537	4.7537	4.5600e-003	0.0000	4.8677
Energy	0.0224	0.1912	0.0813	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.0232	244.0232	4.6800e-003	4.4700e-003	245.4733
Mobile	1.0042	0.9792	8.0738	0.0167	1.6519	0.0124	1.6643	0.4404	0.0115	0.4520		1,698.0218	1,698.0218	0.1049	0.0765	1,723.4420
<b>Total</b>	<b>2.5360</b>	<b>1.2008</b>	<b>10.7941</b>	<b>0.0180</b>	<b>1.6519</b>	<b>0.0424</b>	<b>1.6944</b>	<b>0.4404</b>	<b>0.0416</b>	<b>0.4820</b>	<b>0.0000</b>	<b>1,946.7986</b>	<b>1,946.7986</b>	<b>0.1141</b>	<b>0.0810</b>	<b>1,973.7830</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	1.5095	0.0304	2.6389	1.4000e-004		0.0146	0.0146		0.0146	0.0146	0.0000	4.7537	4.7537	4.5600e-003	0.0000	4.8677
Energy	0.0224	0.1912	0.0813	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.0232	244.0232	4.6800e-003	4.4700e-003	245.4733
Mobile	1.0042	0.9792	8.0738	0.0167	1.6519	0.0124	1.6643	0.4404	0.0115	0.4520		1,698.0218	1,698.0218	0.1049	0.0765	1,723.4420
<b>Total</b>	<b>2.5360</b>	<b>1.2008</b>	<b>10.7941</b>	<b>0.0180</b>	<b>1.6519</b>	<b>0.0424</b>	<b>1.6944</b>	<b>0.4404</b>	<b>0.0416</b>	<b>0.4820</b>	<b>0.0000</b>	<b>1,946.7986</b>	<b>1,946.7986</b>	<b>0.1141</b>	<b>0.0810</b>	<b>1,973.7830</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/29/2022	9/2/2022	5	5	
2	Site Preparation	Site Preparation	9/24/2022	10/7/2022	5	10	
3	Grading	Grading	10/8/2022	11/4/2022	5	20	
4	Building Construction	Building Construction	11/5/2022	9/22/2023	5	230	
5	Paving	Paving	9/23/2023	10/20/2023	5	20	
6	Architectural Coating	Architectural Coating	10/21/2023	11/17/2023	5	20	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 0**

**Residential Indoor: 116,640; Residential Outdoor: 38,880; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38

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Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	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
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	3.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>		<b>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</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	0.0543	0.0274	0.4430	1.0800e-003	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		108.9082	108.9082	3.2500e-003	2.8300e-003	109.8337
<b>Total</b>	<b>0.0543</b>	<b>0.0274</b>	<b>0.4430</b>	<b>1.0800e-003</b>	<b>0.1141</b>	<b>6.2000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.7000e-004</b>	<b>0.0308</b>		<b>108.9082</b>	<b>108.9082</b>	<b>3.2500e-003</b>	<b>2.8300e-003</b>	<b>109.8337</b>

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**3.2 Demolition - 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	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>		<b>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</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	0.0543	0.0274	0.4430	1.0800e-003	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		108.9082	108.9082	3.2500e-003	2.8300e-003	109.8337
<b>Total</b>	<b>0.0543</b>	<b>0.0274</b>	<b>0.4430</b>	<b>1.0800e-003</b>	<b>0.1141</b>	<b>6.2000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.7000e-004</b>	<b>0.0308</b>		<b>108.9082</b>	<b>108.9082</b>	<b>3.2500e-003</b>	<b>2.8300e-003</b>	<b>109.8337</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	0.0652	0.0329	0.5316	1.2900e-003	0.1369	7.4000e-004	0.1377	0.0363	6.8000e-004	0.0370		130.6898	130.6898	3.9000e-003	3.4000e-003	131.8004
<b>Total</b>	<b>0.0652</b>	<b>0.0329</b>	<b>0.5316</b>	<b>1.2900e-003</b>	<b>0.1369</b>	<b>7.4000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>6.8000e-004</b>	<b>0.0370</b>		<b>130.6898</b>	<b>130.6898</b>	<b>3.9000e-003</b>	<b>3.4000e-003</b>	<b>131.8004</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	0.0652	0.0329	0.5316	1.2900e-003	0.1369	7.4000e-004	0.1377	0.0363	6.8000e-004	0.0370		130.6898	130.6898	3.9000e-003	3.4000e-003	131.8004
<b>Total</b>	<b>0.0652</b>	<b>0.0329</b>	<b>0.5316</b>	<b>1.2900e-003</b>	<b>0.1369</b>	<b>7.4000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>6.8000e-004</b>	<b>0.0370</b>		<b>130.6898</b>	<b>130.6898</b>	<b>3.9000e-003</b>	<b>3.4000e-003</b>	<b>131.8004</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.9409</b>	<b>8.0234</b>	<b>3.4247</b>	<b>0.8656</b>	<b>4.2903</b>		<b>2,872.046 4</b>	<b>2,872.046 4</b>	<b>0.9289</b>		<b>2,895.268 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	0.0543	0.0274	0.4430	1.0800e-003	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		108.9082	108.9082	3.2500e-003	2.8300e-003	109.8337
<b>Total</b>	<b>0.0543</b>	<b>0.0274</b>	<b>0.4430</b>	<b>1.0800e-003</b>	<b>0.1141</b>	<b>6.2000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.7000e-004</b>	<b>0.0308</b>		<b>108.9082</b>	<b>108.9082</b>	<b>3.2500e-003</b>	<b>2.8300e-003</b>	<b>109.8337</b>

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.9409</b>	<b>8.0234</b>	<b>3.4247</b>	<b>0.8656</b>	<b>4.2903</b>	<b>0.0000</b>	<b>2,872.046 4</b>	<b>2,872.046 4</b>	<b>0.9289</b>		<b>2,895.268 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	0.0543	0.0274	0.4430	1.0800e-003	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		108.9082	108.9082	3.2500e-003	2.8300e-003	109.8337
<b>Total</b>	<b>0.0543</b>	<b>0.0274</b>	<b>0.4430</b>	<b>1.0800e-003</b>	<b>0.1141</b>	<b>6.2000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.7000e-004</b>	<b>0.0308</b>		<b>108.9082</b>	<b>108.9082</b>	<b>3.2500e-003</b>	<b>2.8300e-003</b>	<b>109.8337</b>

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<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	6.4900e-003	0.1634	0.0492	5.9000e-004	0.0181	1.5900e-003	0.0197	5.2000e-003	1.5200e-003	6.7200e-003		63.4857	63.4857	1.6600e-003	9.3000e-003	66.2978
Worker	0.0435	0.0220	0.3544	8.6000e-004	0.0913	4.9000e-004	0.0918	0.0242	4.6000e-004	0.0247		87.1266	87.1266	2.6000e-003	2.2700e-003	87.8669
<b>Total</b>	<b>0.0500</b>	<b>0.1854</b>	<b>0.4036</b>	<b>1.4500e-003</b>	<b>0.1094</b>	<b>2.0800e-003</b>	<b>0.1114</b>	<b>0.0294</b>	<b>1.9800e-003</b>	<b>0.0314</b>		<b>150.6123</b>	<b>150.6123</b>	<b>4.2600e-003</b>	<b>0.0116</b>	<b>154.1647</b>

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<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	6.4900e-003	0.1634	0.0492	5.9000e-004	0.0181	1.5900e-003	0.0197	5.2000e-003	1.5200e-003	6.7200e-003		63.4857	63.4857	1.6600e-003	9.3000e-003	66.2978
Worker	0.0435	0.0220	0.3544	8.6000e-004	0.0913	4.9000e-004	0.0918	0.0242	4.6000e-004	0.0247		87.1266	87.1266	2.6000e-003	2.2700e-003	87.8669
<b>Total</b>	<b>0.0500</b>	<b>0.1854</b>	<b>0.4036</b>	<b>1.4500e-003</b>	<b>0.1094</b>	<b>2.0800e-003</b>	<b>0.1114</b>	<b>0.0294</b>	<b>1.9800e-003</b>	<b>0.0314</b>		<b>150.6123</b>	<b>150.6123</b>	<b>4.2600e-003</b>	<b>0.0116</b>	<b>154.1647</b>

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<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	4.0100e-003	0.1389	0.0432	5.7000e-004	0.0181	7.8000e-004	0.0189	5.2000e-003	7.4000e-004	5.9400e-003		61.3153	61.3153	1.5200e-003	8.9900e-003	64.0316
Worker	0.0404	0.0194	0.3262	8.3000e-004	0.0913	4.7000e-004	0.0918	0.0242	4.3000e-004	0.0247		84.3463	84.3463	2.3400e-003	2.1000e-003	85.0299
<b>Total</b>	<b>0.0444</b>	<b>0.1583</b>	<b>0.3694</b>	<b>1.4000e-003</b>	<b>0.1094</b>	<b>1.2500e-003</b>	<b>0.1106</b>	<b>0.0294</b>	<b>1.1700e-003</b>	<b>0.0306</b>		<b>145.6616</b>	<b>145.6616</b>	<b>3.8600e-003</b>	<b>0.0111</b>	<b>149.0615</b>

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<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	4.0100e-003	0.1389	0.0432	5.7000e-004	0.0181	7.8000e-004	0.0189	5.2000e-003	7.4000e-004	5.9400e-003		61.3153	61.3153	1.5200e-003	8.9900e-003	64.0316
Worker	0.0404	0.0194	0.3262	8.3000e-004	0.0913	4.7000e-004	0.0918	0.0242	4.3000e-004	0.0247		84.3463	84.3463	2.3400e-003	2.1000e-003	85.0299
<b>Total</b>	<b>0.0444</b>	<b>0.1583</b>	<b>0.3694</b>	<b>1.4000e-003</b>	<b>0.1094</b>	<b>1.2500e-003</b>	<b>0.1106</b>	<b>0.0294</b>	<b>1.1700e-003</b>	<b>0.0306</b>		<b>145.6616</b>	<b>145.6616</b>	<b>3.8600e-003</b>	<b>0.0111</b>	<b>149.0615</b>



Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0327</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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	0.0505	0.0243	0.4077	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		105.4329	105.4329	2.9300e-003	2.6200e-003	106.2874
<b>Total</b>	<b>0.0505</b>	<b>0.0243</b>	<b>0.4077</b>	<b>1.0400e-003</b>	<b>0.1141</b>	<b>5.9000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.4000e-004</b>	<b>0.0308</b>		<b>105.4329</b>	<b>105.4329</b>	<b>2.9300e-003</b>	<b>2.6200e-003</b>	<b>106.2874</b>

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0327</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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	0.0505	0.0243	0.4077	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		105.4329	105.4329	2.9300e-003	2.6200e-003	106.2874
<b>Total</b>	<b>0.0505</b>	<b>0.0243</b>	<b>0.4077</b>	<b>1.0400e-003</b>	<b>0.1141</b>	<b>5.9000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.4000e-004</b>	<b>0.0308</b>		<b>105.4329</b>	<b>105.4329</b>	<b>2.9300e-003</b>	<b>2.6200e-003</b>	<b>106.2874</b>

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.0418					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>36.2334</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	6.7400e-003	3.2400e-003	0.0544	1.4000e-004	0.0152	8.0000e-005	0.0153	4.0400e-003	7.0000e-005	4.1100e-003		14.0577	14.0577	3.9000e-004	3.5000e-004	14.1717
<b>Total</b>	<b>6.7400e-003</b>	<b>3.2400e-003</b>	<b>0.0544</b>	<b>1.4000e-004</b>	<b>0.0152</b>	<b>8.0000e-005</b>	<b>0.0153</b>	<b>4.0400e-003</b>	<b>7.0000e-005</b>	<b>4.1100e-003</b>		<b>14.0577</b>	<b>14.0577</b>	<b>3.9000e-004</b>	<b>3.5000e-004</b>	<b>14.1717</b>

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.0418					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>36.2334</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	6.7400e-003	3.2400e-003	0.0544	1.4000e-004	0.0152	8.0000e-005	0.0153	4.0400e-003	7.0000e-005	4.1100e-003		14.0577	14.0577	3.9000e-004	3.5000e-004	14.1717
<b>Total</b>	<b>6.7400e-003</b>	<b>3.2400e-003</b>	<b>0.0544</b>	<b>1.4000e-004</b>	<b>0.0152</b>	<b>8.0000e-005</b>	<b>0.0153</b>	<b>4.0400e-003</b>	<b>7.0000e-005</b>	<b>4.1100e-003</b>		<b>14.0577</b>	<b>14.0577</b>	<b>3.9000e-004</b>	<b>3.5000e-004</b>	<b>14.1717</b>

Blossom Ridge - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.0042	0.9792	8.0738	0.0167	1.6519	0.0124	1.6643	0.4404	0.0115	0.4520		1,698.0218	1,698.0218	0.1049	0.0765	1,723.4420
Unmitigated	1.0042	0.9792	8.0738	0.0167	1.6519	0.0124	1.6643	0.4404	0.0115	0.4520		1,698.0218	1,698.0218	0.1049	0.0765	1,723.4420

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	302.08	305.28	273.60	765,903	765,903
Total	302.08	305.28	273.60	765,903	765,903

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	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0224	0.1912	0.0813	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.0232	244.0232	4.6800e-003	4.4700e-003	245.4733
NaturalGas Unmitigated	0.0224	0.1912	0.0813	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.0232	244.0232	4.6800e-003	4.4700e-003	245.4733

**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	2074.2	0.0224	0.1912	0.0813	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.0232	244.0232	4.6800e-003	4.4700e-003	245.4733
<b>Total</b>		<b>0.0224</b>	<b>0.1912</b>	<b>0.0813</b>	<b>1.2200e-003</b>		<b>0.0155</b>	<b>0.0155</b>		<b>0.0155</b>	<b>0.0155</b>		<b>244.0232</b>	<b>244.0232</b>	<b>4.6800e-003</b>	<b>4.4700e-003</b>	<b>245.4733</b>

Blossom Ridge - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2.0742	0.0224	0.1912	0.0813	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.0232	244.0232	4.6800e-003	4.4700e-003	245.4733
<b>Total</b>		<b>0.0224</b>	<b>0.1912</b>	<b>0.0813</b>	<b>1.2200e-003</b>		<b>0.0155</b>	<b>0.0155</b>		<b>0.0155</b>	<b>0.0155</b>		<b>244.0232</b>	<b>244.0232</b>	<b>4.6800e-003</b>	<b>4.4700e-003</b>	<b>245.4733</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5095	0.0304	2.6389	1.4000e-004		0.0146	0.0146		0.0146	0.0146	0.0000	4.7537	4.7537	4.5600e-003	0.0000	4.8677
Unmitigated	1.5095	0.0304	2.6389	1.4000e-004		0.0146	0.0146		0.0146	0.0146	0.0000	4.7537	4.7537	4.5600e-003	0.0000	4.8677

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2326					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	0.0794	0.0304	2.6389	1.4000e-004		0.0146	0.0146		0.0146	0.0146		4.7537	4.7537	4.5600e-003		4.8677
<b>Total</b>	<b>1.5095</b>	<b>0.0304</b>	<b>2.6389</b>	<b>1.4000e-004</b>		<b>0.0146</b>	<b>0.0146</b>		<b>0.0146</b>	<b>0.0146</b>	<b>0.0000</b>	<b>4.7537</b>	<b>4.7537</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>4.8677</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.1975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2326					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	0.0794	0.0304	2.6389	1.4000e-004		0.0146	0.0146		0.0146	0.0146		4.7537	4.7537	4.5600e-003		4.8677
<b>Total</b>	<b>1.5095</b>	<b>0.0304</b>	<b>2.6389</b>	<b>1.4000e-004</b>		<b>0.0146</b>	<b>0.0146</b>		<b>0.0146</b>	<b>0.0146</b>	<b>0.0000</b>	<b>4.7537</b>	<b>4.7537</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>4.8677</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 Not Applied**

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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	32.00	Dwelling Unit	9.40	57,600.00	85

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2024
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<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 - actual lot acreage

Construction Phase - one detached garage to be demolished

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	PhaseEndDate	9/23/2022	9/2/2022
tblLandUse	LotAcreage	10.39	9.40

**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 Not 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	0.0778	0.7551	0.6440	1.1700e-003	0.1733	0.0368	0.2101	0.0859	0.0342	0.1201	0.0000	101.8785	101.8785	0.0275	2.6000e-004	102.6434
2023	0.5262	1.4977	1.7418	2.9500e-003	0.0113	0.0724	0.0837	3.0400e-003	0.0681	0.0711	0.0000	255.7033	255.7033	0.0594	1.0000e-003	257.4849
<b>Maximum</b>	<b>0.5262</b>	<b>1.4977</b>	<b>1.7418</b>	<b>2.9500e-003</b>	<b>0.1733</b>	<b>0.0724</b>	<b>0.2101</b>	<b>0.0859</b>	<b>0.0681</b>	<b>0.1201</b>	<b>0.0000</b>	<b>255.7033</b>	<b>255.7033</b>	<b>0.0594</b>	<b>1.0000e-003</b>	<b>257.4849</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	0.0778	0.7551	0.6440	1.1700e-003	0.1733	0.0368	0.2101	0.0859	0.0342	0.1201	0.0000	101.8784	101.8784	0.0275	2.6000e-004	102.6433
2023	0.5262	1.4977	1.7418	2.9500e-003	0.0113	0.0724	0.0837	3.0400e-003	0.0681	0.0711	0.0000	255.7030	255.7030	0.0594	1.0000e-003	257.4846
<b>Maximum</b>	<b>0.5262</b>	<b>1.4977</b>	<b>1.7418</b>	<b>2.9500e-003</b>	<b>0.1733</b>	<b>0.0724</b>	<b>0.2101</b>	<b>0.0859</b>	<b>0.0681</b>	<b>0.1201</b>	<b>0.0000</b>	<b>255.7030</b>	<b>255.7030</b>	<b>0.0594</b>	<b>1.0000e-003</b>	<b>257.4846</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	8-29-2022	11-28-2022	0.6120	0.6120
2	11-29-2022	2-27-2023	0.5420	0.5420
3	2-28-2023	5-28-2023	0.5196	0.5196
4	5-29-2023	8-28-2023	0.5310	0.5310
5	8-29-2023	9-30-2023	0.1766	0.1766
		Highest	0.6120	0.6120

**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	0.2709	3.8000e-003	0.3299	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5391	0.5391	5.2000e-004	0.0000	0.5520
Energy	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	81.4881	81.4881	4.5600e-003	1.2000e-003	81.9597
Mobile	0.1454	0.1892	1.3302	2.7600e-003	0.2839	2.2000e-003	0.2861	0.0759	2.0500e-003	0.0780	0.0000	255.2086	255.2086	0.0178	0.0129	259.4873
Waste						0.0000	0.0000		0.0000	0.0000	6.2115	0.0000	6.2115	0.3671	0.0000	15.3888
Water						0.0000	0.0000		0.0000	0.0000	0.7377	2.4338	3.1715	2.7600e-003	1.6300e-003	3.7267
<b>Total</b>	<b>0.4204</b>	<b>0.2279</b>	<b>1.6749</b>	<b>3.0000e-003</b>	<b>0.2839</b>	<b>6.8500e-003</b>	<b>0.2907</b>	<b>0.0759</b>	<b>6.7000e-003</b>	<b>0.0826</b>	<b>6.9492</b>	<b>339.6696</b>	<b>346.6187</b>	<b>0.3927</b>	<b>0.0157</b>	<b>361.1144</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	0.2709	3.8000e-003	0.3299	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5391	0.5391	5.2000e-004	0.0000	0.5520
Energy	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	81.4881	81.4881	4.5600e-003	1.2000e-003	81.9597
Mobile	0.1454	0.1892	1.3302	2.7600e-003	0.2839	2.2000e-003	0.2861	0.0759	2.0500e-003	0.0780	0.0000	255.2086	255.2086	0.0178	0.0129	259.4873
Waste						0.0000	0.0000		0.0000	0.0000	6.2115	0.0000	6.2115	0.3671	0.0000	15.3888
Water						0.0000	0.0000		0.0000	0.0000	0.7377	2.4338	3.1715	2.7600e-003	1.6300e-003	3.7267
<b>Total</b>	<b>0.4204</b>	<b>0.2279</b>	<b>1.6749</b>	<b>3.0000e-003</b>	<b>0.2839</b>	<b>6.8500e-003</b>	<b>0.2907</b>	<b>0.0759</b>	<b>6.7000e-003</b>	<b>0.0826</b>	<b>6.9492</b>	<b>339.6696</b>	<b>346.6187</b>	<b>0.3927</b>	<b>0.0157</b>	<b>361.1144</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</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	Demolition	Demolition	8/29/2022	9/2/2022	5	5	
2	Site Preparation	Site Preparation	9/24/2022	10/7/2022	5	10	
3	Grading	Grading	10/8/2022	11/4/2022	5	20	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	11/5/2022	9/22/2023	5	230
5	Paving	Paving	9/23/2023	10/20/2023	5	20
6	Architectural Coating	Architectural Coating	10/21/2023	11/17/2023	5	20

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 0**

**Residential Indoor: 116,640; Residential Outdoor: 38,880; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Welders	1	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
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	3.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 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	6.6000e-003	0.0643	0.0515	1.0000e-004		3.1100e-003	3.1100e-003		2.8900e-003	2.8900e-003	0.0000	8.4976	8.4976	2.3900e-003	0.0000	8.5572
<b>Total</b>	<b>6.6000e-003</b>	<b>0.0643</b>	<b>0.0515</b>	<b>1.0000e-004</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>		<b>2.8900e-003</b>	<b>2.8900e-003</b>	<b>0.0000</b>	<b>8.4976</b>	<b>8.4976</b>	<b>2.3900e-003</b>	<b>0.0000</b>	<b>8.5572</b>



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**3.2 Demolition - 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	1.2000e-004	8.0000e-005	9.4000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2253	0.2253	1.0000e-005	1.0000e-005	0.2276
<b>Total</b>	<b>1.2000e-004</b>	<b>8.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2253</b>	<b>0.2253</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2276</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	6.6000e-003	0.0643	0.0515	1.0000e-004		3.1100e-003	3.1100e-003		2.8900e-003	2.8900e-003	0.0000	8.4976	8.4976	2.3900e-003	0.0000	8.5572
<b>Total</b>	<b>6.6000e-003</b>	<b>0.0643</b>	<b>0.0515</b>	<b>1.0000e-004</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>		<b>2.8900e-003</b>	<b>2.8900e-003</b>	<b>0.0000</b>	<b>8.4976</b>	<b>8.4976</b>	<b>2.3900e-003</b>	<b>0.0000</b>	<b>8.5572</b>

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**3.2 Demolition - 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	1.2000e-004	8.0000e-005	9.4000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2253	0.2253	1.0000e-005	1.0000e-005	0.2276
<b>Total</b>	<b>1.2000e-004</b>	<b>8.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2253</b>	<b>0.2253</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2276</b>

**3.3 Site Preparation - 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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
<b>Total</b>	<b>0.0159</b>	<b>0.1654</b>	<b>0.0985</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>8.0600e-003</b>	<b>0.1064</b>	<b>0.0505</b>	<b>7.4200e-003</b>	<b>0.0579</b>	<b>0.0000</b>	<b>16.7197</b>	<b>16.7197</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8549</b>

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**3.3 Site Preparation - 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	2.8000e-004	1.8000e-004	2.2700e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5408	0.5408	2.0000e-005	2.0000e-005	0.5461
<b>Total</b>	<b>2.8000e-004</b>	<b>1.8000e-004</b>	<b>2.2700e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5408</b>	<b>0.5408</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5461</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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
<b>Total</b>	<b>0.0159</b>	<b>0.1654</b>	<b>0.0985</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>8.0600e-003</b>	<b>0.1064</b>	<b>0.0505</b>	<b>7.4200e-003</b>	<b>0.0579</b>	<b>0.0000</b>	<b>16.7197</b>	<b>16.7197</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8549</b>

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**3.3 Site Preparation - 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	2.8000e-004	1.8000e-004	2.2700e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5408	0.5408	2.0000e-005	2.0000e-005	0.5461
<b>Total</b>	<b>2.8000e-004</b>	<b>1.8000e-004</b>	<b>2.2700e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5408</b>	<b>0.5408</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5461</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
<b>Total</b>	<b>0.0195</b>	<b>0.2086</b>	<b>0.1527</b>	<b>3.0000e-004</b>	<b>0.0708</b>	<b>9.4100e-003</b>	<b>0.0802</b>	<b>0.0343</b>	<b>8.6600e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>26.0548</b>	<b>26.0548</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2654</b>

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**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.6000e-004	3.0000e-004	3.7800e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9013	0.9013	3.0000e-005	3.0000e-005	0.9102
<b>Total</b>	<b>4.6000e-004</b>	<b>3.0000e-004</b>	<b>3.7800e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.9013</b>	<b>0.9013</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9102</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					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
<b>Total</b>	<b>0.0195</b>	<b>0.2086</b>	<b>0.1527</b>	<b>3.0000e-004</b>	<b>0.0708</b>	<b>9.4100e-003</b>	<b>0.0802</b>	<b>0.0343</b>	<b>8.6600e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>26.0547</b>	<b>26.0547</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2654</b>

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**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.6000e-004	3.0000e-004	3.7800e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9013	0.9013	3.0000e-005	3.0000e-005	0.9102
<b>Total</b>	<b>4.6000e-004</b>	<b>3.0000e-004</b>	<b>3.7800e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.9013</b>	<b>0.9013</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9102</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0341	0.3123	0.3273	5.4000e-004		0.0162	0.0162		0.0152	0.0152	0.0000	46.3451	46.3451	0.0111	0.0000	46.6226
<b>Total</b>	<b>0.0341</b>	<b>0.3123</b>	<b>0.3273</b>	<b>5.4000e-004</b>		<b>0.0162</b>	<b>0.0162</b>		<b>0.0152</b>	<b>0.0152</b>	<b>0.0000</b>	<b>46.3451</b>	<b>46.3451</b>	<b>0.0111</b>	<b>0.0000</b>	<b>46.6226</b>

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**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	3.4400e-003	1.0000e-003	1.0000e-005	3.5000e-004	3.0000e-005	3.8000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.1518	1.1518	3.0000e-005	1.7000e-004	1.2029
Worker	7.4000e-004	4.8000e-004	6.0500e-003	2.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4421	1.4421	5.0000e-005	4.0000e-005	1.4564
<b>Total</b>	<b>8.7000e-004</b>	<b>3.9200e-003</b>	<b>7.0500e-003</b>	<b>3.0000e-005</b>	<b>2.1100e-003</b>	<b>4.0000e-005</b>	<b>2.1500e-003</b>	<b>5.7000e-004</b>	<b>4.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.5939</b>	<b>2.5939</b>	<b>8.0000e-005</b>	<b>2.1000e-004</b>	<b>2.6593</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	0.0341	0.3123	0.3273	5.4000e-004		0.0162	0.0162		0.0152	0.0152	0.0000	46.3450	46.3450	0.0111	0.0000	46.6226
<b>Total</b>	<b>0.0341</b>	<b>0.3123</b>	<b>0.3273</b>	<b>5.4000e-004</b>		<b>0.0162</b>	<b>0.0162</b>		<b>0.0152</b>	<b>0.0152</b>	<b>0.0000</b>	<b>46.3450</b>	<b>46.3450</b>	<b>0.0111</b>	<b>0.0000</b>	<b>46.6226</b>

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**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	3.4400e-003	1.0000e-003	1.0000e-005	3.5000e-004	3.0000e-005	3.8000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.1518	1.1518	3.0000e-005	1.7000e-004	1.2029
Worker	7.4000e-004	4.8000e-004	6.0500e-003	2.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4421	1.4421	5.0000e-005	4.0000e-005	1.4564
<b>Total</b>	<b>8.7000e-004</b>	<b>3.9200e-003</b>	<b>7.0500e-003</b>	<b>3.0000e-005</b>	<b>2.1100e-003</b>	<b>4.0000e-005</b>	<b>2.1500e-003</b>	<b>5.7000e-004</b>	<b>4.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.5939</b>	<b>2.5939</b>	<b>8.0000e-005</b>	<b>2.1000e-004</b>	<b>2.6593</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1494	1.3666	1.5432	2.5600e-003		0.0665	0.0665		0.0626	0.0626	0.0000	220.2145	220.2145	0.0524	0.0000	221.5242
<b>Total</b>	<b>0.1494</b>	<b>1.3666</b>	<b>1.5432</b>	<b>2.5600e-003</b>		<b>0.0665</b>	<b>0.0665</b>		<b>0.0626</b>	<b>0.0626</b>	<b>0.0000</b>	<b>220.2145</b>	<b>220.2145</b>	<b>0.0524</b>	<b>0.0000</b>	<b>221.5242</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0139	4.1900e-003	5.0000e-005	1.6700e-003	7.0000e-005	1.7400e-003	4.8000e-004	7.0000e-005	5.5000e-004	0.0000	5.2859	5.2859	1.3000e-004	7.8000e-004	5.5203
Worker	3.2700e-003	2.0200e-003	0.0265	7.0000e-005	8.3700e-003	4.0000e-005	8.4200e-003	2.2300e-003	4.0000e-005	2.2700e-003	0.0000	6.6335	6.6335	2.1000e-004	1.9000e-004	6.6961
<b>Total</b>	<b>3.6400e-003</b>	<b>0.0159</b>	<b>0.0307</b>	<b>1.2000e-004</b>	<b>0.0100</b>	<b>1.1000e-004</b>	<b>0.0102</b>	<b>2.7100e-003</b>	<b>1.1000e-004</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>11.9194</b>	<b>11.9194</b>	<b>3.4000e-004</b>	<b>9.7000e-004</b>	<b>12.2163</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	0.1494	1.3666	1.5432	2.5600e-003		0.0665	0.0665		0.0626	0.0626	0.0000	220.2143	220.2143	0.0524	0.0000	221.5239
<b>Total</b>	<b>0.1494</b>	<b>1.3666</b>	<b>1.5432</b>	<b>2.5600e-003</b>		<b>0.0665</b>	<b>0.0665</b>		<b>0.0626</b>	<b>0.0626</b>	<b>0.0000</b>	<b>220.2143</b>	<b>220.2143</b>	<b>0.0524</b>	<b>0.0000</b>	<b>221.5239</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0139	4.1900e-003	5.0000e-005	1.6700e-003	7.0000e-005	1.7400e-003	4.8000e-004	7.0000e-005	5.5000e-004	0.0000	5.2859	5.2859	1.3000e-004	7.8000e-004	5.5203
Worker	3.2700e-003	2.0200e-003	0.0265	7.0000e-005	8.3700e-003	4.0000e-005	8.4200e-003	2.2300e-003	4.0000e-005	2.2700e-003	0.0000	6.6335	6.6335	2.1000e-004	1.9000e-004	6.6961
<b>Total</b>	<b>3.6400e-003</b>	<b>0.0159</b>	<b>0.0307</b>	<b>1.2000e-004</b>	<b>0.0100</b>	<b>1.1000e-004</b>	<b>0.0102</b>	<b>2.7100e-003</b>	<b>1.1000e-004</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>11.9194</b>	<b>11.9194</b>	<b>3.4000e-004</b>	<b>9.7000e-004</b>	<b>12.2163</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
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>0.0103</b>	<b>0.1019</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>20.0269</b>	<b>20.0269</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1888</b>

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**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.7000e-004	3.4900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8728	0.8728	3.0000e-005	3.0000e-005	0.8811
<b>Total</b>	<b>4.3000e-004</b>	<b>2.7000e-004</b>	<b>3.4900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.8728</b>	<b>0.8728</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.8811</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	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
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>0.0103</b>	<b>0.1019</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>20.0268</b>	<b>20.0268</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1888</b>

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**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.7000e-004	3.4900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8728	0.8728	3.0000e-005	3.0000e-005	0.8811
<b>Total</b>	<b>4.3000e-004</b>	<b>2.7000e-004</b>	<b>3.4900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.8728</b>	<b>0.8728</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.8811</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
<b>Total</b>	<b>0.3623</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5571</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1164	0.1164	0.0000	0.0000	0.1175
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1164</b>	<b>0.1164</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1175</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	0.3604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
<b>Total</b>	<b>0.3623</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5571</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1164	0.1164	0.0000	0.0000	0.1175
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1164</b>	<b>0.1164</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1175</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.1454	0.1892	1.3302	2.7600e-003	0.2839	2.2000e-003	0.2861	0.0759	2.0500e-003	0.0780	0.0000	255.2086	255.2086	0.0178	0.0129	259.4873
Unmitigated	0.1454	0.1892	1.3302	2.7600e-003	0.2839	2.2000e-003	0.2861	0.0759	2.0500e-003	0.0780	0.0000	255.2086	255.2086	0.0178	0.0129	259.4873

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	302.08	305.28	273.60	765,903	765,903
Total	302.08	305.28	273.60	765,903	765,903

**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	6.50	46.50	12.50	41.00	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351

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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	41.0873	41.0873	3.7900e-003	4.6000e-004	41.3188
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	41.0873	41.0873	3.7900e-003	4.6000e-004	41.3188
NaturalGas Mitigated	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.4008	40.4008	7.7000e-004	7.4000e-004	40.6409
NaturalGas Unmitigated	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.4008	40.4008	7.7000e-004	7.4000e-004	40.6409



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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	757082	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.4008	40.4008	7.7000e-004	7.4000e-004	40.6409
<b>Total</b>		<b>4.0800e-003</b>	<b>0.0349</b>	<b>0.0148</b>	<b>2.2000e-004</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>40.4008</b>	<b>40.4008</b>	<b>7.7000e-004</b>	<b>7.4000e-004</b>	<b>40.6409</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	757082	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.4008	40.4008	7.7000e-004	7.4000e-004	40.6409
<b>Total</b>		<b>4.0800e-003</b>	<b>0.0349</b>	<b>0.0148</b>	<b>2.2000e-004</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>40.4008</b>	<b>40.4008</b>	<b>7.7000e-004</b>	<b>7.4000e-004</b>	<b>40.6409</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	253036	41.0873	3.7900e-003	4.6000e-004	41.3188
<b>Total</b>		<b>41.0873</b>	<b>3.7900e-003</b>	<b>4.6000e-004</b>	<b>41.3188</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	253036	41.0873	3.7900e-003	4.6000e-004	41.3188
<b>Total</b>		<b>41.0873</b>	<b>3.7900e-003</b>	<b>4.6000e-004</b>	<b>41.3188</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	0.2709	3.8000e-003	0.3299	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5391	0.5391	5.2000e-004	0.0000	0.5520
Unmitigated	0.2709	3.8000e-003	0.3299	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5391	0.5391	5.2000e-004	0.0000	0.5520

**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	0.0360					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2250					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	9.9200e-003	3.8000e-003	0.3299	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5391	0.5391	5.2000e-004	0.0000	0.5520
<b>Total</b>	<b>0.2709</b>	<b>3.8000e-003</b>	<b>0.3299</b>	<b>2.0000e-005</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>0.5391</b>	<b>0.5391</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>0.5520</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0360					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2250					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	9.9200e-003	3.8000e-003	0.3299	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5391	0.5391	5.2000e-004	0.0000	0.5520
<b>Total</b>	<b>0.2709</b>	<b>3.8000e-003</b>	<b>0.3299</b>	<b>2.0000e-005</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>0.5391</b>	<b>0.5391</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>0.5520</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.1715	2.7600e-003	1.6300e-003	3.7267
Unmitigated	3.1715	2.7600e-003	1.6300e-003	3.7267

**7.2 Water by Land Use**

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.08493 / 1.31441	3.1715	2.7600e-003	1.6300e-003	3.7267
<b>Total</b>		<b>3.1715</b>	<b>2.7600e-003</b>	<b>1.6300e-003</b>	<b>3.7267</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.08493 / 1.31441	3.1715	2.7600e-003	1.6300e-003	3.7267
<b>Total</b>		<b>3.1715</b>	<b>2.7600e-003</b>	<b>1.6300e-003</b>	<b>3.7267</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.2115	0.3671	0.0000	15.3888
Unmitigated	6.2115	0.3671	0.0000	15.3888

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	30.6	6.2115	0.3671	0.0000	15.3888
<b>Total</b>		<b>6.2115</b>	<b>0.3671</b>	<b>0.0000</b>	<b>15.3888</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	30.6	6.2115	0.3671	0.0000	15.3888
<b>Total</b>		<b>6.2115</b>	<b>0.3671</b>	<b>0.0000</b>	<b>15.3888</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 Not 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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