

Dry Creek Estates Project - Sacramento Valley Air Basin, Annual

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

**Dry Creek Estates Project**

**Sacramento Valley Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	6.11	Acre	6.11	286,151.60	0
Single Family Housing	67.00	Dwelling Unit	5.88	256,275.00	192
Single Family Housing	80.00	Dwelling Unit	9.09	396,000.00	229

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2025

Utility Company Sacramento Municipal Utility District

CO2 Intensity (lb/MW/hr)	590.31	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Imported inputs

Land Use - Per Dry Creek Tentative Site Plan  
Parking = new roads

Construction Phase -

Grading -

Vehicle Trips - imported result

Woodstoves - No woodstoves in City Sacramento for new housing  
SMAQMD BMP1 - Projects shall be designed and constructed without Natural Gas Infrastructure

Energy Use - input data

Land Use Change -

Construction Off-road Equipment Mitigation -

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Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

Fleet Mix - imported inputs

Stationary Sources - Emergency Generators and Fire Pumps -

Trips and VMT - Based on Project input

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	120,600.00	256,275.00
tblLandUse	LandUseSquareFeet	144,000.00	396,000.00
tblLandUse	LotAcreage	21.75	5.88
tblLandUse	LotAcreage	25.97	9.09
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.029
tblProjectCharacteristics	CO2IntensityFactor	357.98	590.31
tblProjectCharacteristics	N2OIntensityFactor	0.004	0.006
tblTripsAndVMT	HaulingTripNumber	0.00	3,125.00

**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**

Year	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2024	0.2509	2.3952	2.4243	6.4400e-003	0.4197	0.0898	0.5095	0.1580	0.0838	0.2418	0.0000	582.7361	582.7361	0.0918	0.0294	593.7797
2025	4.3415	1.7819	2.3930	5.6300e-003	0.1872	0.0645	0.2517	0.0508	0.0606	0.1114	0.0000	507.2026	507.2026	0.0697	0.0210	515.2003
<b>Maximum</b>	<b>4.3415</b>	<b>2.3952</b>	<b>2.4243</b>	<b>6.4400e-003</b>	<b>0.4197</b>	<b>0.0898</b>	<b>0.5095</b>	<b>0.1580</b>	<b>0.0838</b>	<b>0.2418</b>	<b>0.0000</b>	<b>582.7361</b>	<b>582.7361</b>	<b>0.0918</b>	<b>0.0294</b>	<b>593.7797</b>

**Mitigated Construction**

Year	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2024	0.2509	2.3952	2.4243	6.4400e-003	0.2771	0.0898	0.3669	0.0951	0.0838	0.1789	0.0000	582.7357	582.7357	0.0918	0.0294	593.7793
2025	4.3415	1.7819	2.3930	5.6300e-003	0.1872	0.0645	0.2517	0.0508	0.0606	0.1114	0.0000	507.2023	507.2023	0.0697	0.0210	515.1999
<b>Maximum</b>	<b>4.3415</b>	<b>2.3952</b>	<b>2.4243</b>	<b>6.4400e-003</b>	<b>0.2771</b>	<b>0.0898</b>	<b>0.3669</b>	<b>0.0951</b>	<b>0.0838</b>	<b>0.1789</b>	<b>0.0000</b>	<b>582.7357</b>	<b>582.7357</b>	<b>0.0918</b>	<b>0.0294</b>	<b>593.7793</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	23.50	0.00	18.74	30.15	0.00	17.82	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	3-1-2024	5-31-2024	1.2208	1.2208
2	6-1-2024	8-31-2024	0.6073	0.6073
3	9-1-2024	11-30-2024	0.6052	0.6052
4	12-1-2024	2-28-2025	0.5758	0.5758
5	3-1-2025	5-31-2025	0.5708	0.5708
6	6-1-2025	8-31-2025	0.5685	0.5685
7	9-1-2025	9-30-2025	0.1854	0.1854
		Highest	1.2208	1.2208

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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**

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	21.4566	0.3728	23.8618	0.0413		3.1988	3.1988		3.1988	3.1988	303.6896	129.1460	432.8356	0.2820	0.0239	447.0031
Energy	0.0188	0.1603	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130	0.0000	496.8318	496.8318	0.0189	6.5700e-003	499.2596
Mobile	0.7158	1.0499	6.5199	0.0136	1.4007	0.0122	1.4129	0.3749	0.0115	0.3864	0.0000	1,288.6285	1,288.6285	0.0823	0.0673	1,310.7522
Waste						0.0000	0.0000		0.0000	0.0000	30.3776	0.0000	30.3776	1.7953	0.0000	75.2592
Water						0.0000	0.0000		0.0000	0.0000	3.0385	19.5352	22.5738	0.3131	7.5700e-003	32.6551
<b>Total</b>	<b>22.1912</b>	<b>1.5830</b>	<b>30.4499</b>	<b>0.0559</b>	<b>1.4007</b>	<b>3.2240</b>	<b>4.6247</b>	<b>0.3749</b>	<b>3.2232</b>	<b>3.5981</b>	<b>337.1057</b>	<b>1,934.1415</b>	<b>2,271.2472</b>	<b>2.4914</b>	<b>0.1054</b>	<b>2,364.9292</b>

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**2.2 Overall Operational**

**Mitigated Operational**

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	2.8188	0.0126	1.0905	6.0000e-005	6.0500e-003	6.0500e-003	6.0500e-003	6.0500e-003	6.0500e-003	6.0500e-003	0.0000	1.7830	1.7830	1.7100e-003	0.0000	1.8257
Energy	0.0188	0.1603	0.0682	1.0200e-003	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130	0.0000	496.8318	496.8318	0.0189	6.5700e-003	499.2596
Mobile	0.7158	1.0499	6.5199	0.0136	1.4007	0.0122	1.4129	0.3749	0.1115	0.3864	0.0000	1,288.6285	1,288.6285	0.0823	0.0673	1,310.7522
Waste						0.0000	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	0.0000	3.0385	19.5352	22.5738	0.3131	7.5700e-003	32.6551
<b>Total</b>	<b>3.5533</b>	<b>1.2228</b>	<b>7.6786</b>	<b>0.0147</b>	<b>1.4007</b>	<b>0.0312</b>	<b>1.4319</b>	<b>0.3749</b>	<b>0.0305</b>	<b>0.4054</b>	<b>3.0385</b>	<b>1,806.7785</b>	<b>1,809.8171</b>	<b>0.4159</b>	<b>0.0815</b>	<b>1,844.4926</b>

ROG	NOx	CO	SO2	PM10 Total	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
83.99	22.76	74.78	73.74	69.04	0.00	99.03	69.04	0.00	99.05	88.73	99.10	6.58	20.32	83.31	22.67	22.01

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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
Vegetation Land Change	0.0000
<b>Total</b>	<b>0.0000</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	3/1/2024	3/28/2024	5	20	
2	Site Preparation	Site Preparation	3/29/2024	4/11/2024	5	10	
3	Grading	Grading	4/12/2024	5/30/2024	5	35	
4	Building Construction	Building Construction	5/31/2024	10/30/2025	5	370	
5	Paving	Paving	10/31/2025	11/27/2025	5	20	
6	Architectural Coating	Architectural Coating	11/28/2025	12/25/2025	5	20	

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

**Acres of Grading (Grading Phase): 105**

**Acres of Paving: 6.11**

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**Residential Indoor: 1,320,857; Residential Outdoor: 440,286; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 15,969 (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
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
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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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	76	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT



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	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving										
Grading	8	20.00	0.00	3,125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	165.00	59.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	33.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2024**

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0224	0.2088	0.1971	3.9000e-004	9.6000e-003	9.6000e-003	9.6000e-003	8.9200e-003	8.9200e-003	8.9200e-003	0.0000	33.9961	33.9961	9.5100e-003	0.0000	34.2338
<b>Total</b>	<b>0.0224</b>	<b>0.2088</b>	<b>0.1971</b>	<b>3.9000e-004</b>	<b>9.6000e-003</b>	<b>9.6000e-003</b>	<b>9.6000e-003</b>	<b>8.9200e-003</b>	<b>8.9200e-003</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>33.9961</b>	<b>33.9961</b>	<b>9.5100e-003</b>	<b>0.0000</b>	<b>34.2338</b>

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**3.2 Demolition - 2024**

**Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	4.2000e-004	2.6000e-004	3.4400e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9333	0.9333	3.0000e-005	3.0000e-005	0.9415
<b>Total</b>	<b>4.2000e-004</b>	<b>2.6000e-004</b>	<b>3.4400e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9333</b>	<b>0.9333</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9415</b>

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0224	0.2088	0.1971	3.9000e-004	9.6000e-003	9.6000e-003	9.6000e-003	8.9200e-003	8.9200e-003	8.9200e-003	0.0000	33.9960	33.9960	9.5100e-003	0.0000	34.2338
<b>Total</b>	<b>0.0224</b>	<b>0.2088</b>	<b>0.1971</b>	<b>3.9000e-004</b>	<b>9.6000e-003</b>	<b>9.6000e-003</b>	<b>9.6000e-003</b>	<b>8.9200e-003</b>	<b>8.9200e-003</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>33.9960</b>	<b>33.9960</b>	<b>9.5100e-003</b>	<b>0.0000</b>	<b>34.2338</b>

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**3.2 Demolition - 2024**

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	4.2000e-004	2.6000e-004	3.4400e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9333	0.9333	3.0000e-005	3.0000e-005	0.9415
<b>Total</b>	<b>4.2000e-004</b>	<b>2.6000e-004</b>	<b>3.4400e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9333</b>	<b>0.9333</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9415</b>

**3.3 Site Preparation - 2024**

**Unmitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.0133	0.1359	0.0917	1.9000e-004	6.1500e-003	6.1500e-003	6.1500e-003	5.6600e-003	5.6600e-003	5.6600e-003	0.0000	16.7285	16.7285	5.4100e-003	0.0000	16.8638
<b>Total</b>	<b>0.0133</b>	<b>0.1359</b>	<b>0.0917</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>6.1500e-003</b>	<b>0.1044</b>	<b>0.0505</b>	<b>5.6600e-003</b>	<b>0.0562</b>	<b>0.0000</b>	<b>16.7285</b>	<b>16.7285</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8638</b>

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**3.3 Site Preparation - 2024**

**Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	2.5000e-004	1.6000e-004	2.0600e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5600	0.5600	2.0000e-005	2.0000e-005	0.5649
<b>Total</b>	<b>2.5000e-004</b>	<b>1.6000e-004</b>	<b>2.0600e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.1000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5600</b>	<b>0.5600</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5649</b>

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0442	0.0000	0.0442	0.0227	0.0000	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1359	0.0917	1.9000e-004	6.1500e-003	6.1500e-003	6.1500e-003	5.6500e-003	5.6500e-003	5.6500e-003	0.0000	16.7285	16.7285	5.4100e-003	0.0000	16.8638
<b>Total</b>	<b>0.0133</b>	<b>0.1359</b>	<b>0.0917</b>	<b>1.9000e-004</b>	<b>0.0442</b>	<b>6.1500e-003</b>	<b>0.0504</b>	<b>0.0227</b>	<b>5.6500e-003</b>	<b>0.0284</b>	<b>0.0000</b>	<b>16.7285</b>	<b>16.7285</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8638</b>

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

**3.3 Site Preparation - 2024**

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	2.5000e-004	1.6000e-004	2.0600e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5600	0.5600	2.0000e-005	2.0000e-005	0.5649
<b>Total</b>	<b>2.5000e-004</b>	<b>1.6000e-004</b>	<b>2.0600e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.1000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5600</b>	<b>0.5600</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5649</b>

**3.4 Grading - 2024**

**Unmitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.1611	0.0000	0.1611	0.0639	0.0000	0.0639	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0563	0.5666	0.4852	1.0900e-003		0.0234	0.0234	0.0215	0.0215	0.0215	0.0000	95.4092	95.4092	0.0309	0.0000	96.1806
<b>Total</b>	<b>0.0563</b>	<b>0.5666</b>	<b>0.4852</b>	<b>1.0900e-003</b>	<b>0.1611</b>	<b>0.0234</b>	<b>0.1844</b>	<b>0.0639</b>	<b>0.0215</b>	<b>0.0854</b>	<b>0.0000</b>	<b>95.4092</b>	<b>95.4092</b>	<b>0.0309</b>	<b>0.0000</b>	<b>96.1806</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 Grading - 2024**

**Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	3.7700e-003	0.2159	0.0456	9.3000e-004	0.0264	1.8900e-003	0.0283	7.2700e-003	1.8100e-003	9.0800e-003	0.0000	89.6398	89.6398	9.8000e-004	0.0141	93.8717
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	6.1000e-004	8.0300e-003	2.0000e-005	2.7600e-003	1.0000e-005	2.7800e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.1777	2.1777	6.0000e-005	6.0000e-005	2.1968
<b>Total</b>	<b>4.7500e-003</b>	<b>0.2165</b>	<b>0.0536</b>	<b>9.5000e-004</b>	<b>0.0292</b>	<b>1.9000e-003</b>	<b>0.0311</b>	<b>8.0100e-003</b>	<b>1.8200e-003</b>	<b>9.8300e-003</b>	<b>0.0000</b>	<b>91.8175</b>	<b>91.8175</b>	<b>1.0400e-003</b>	<b>0.0142</b>	<b>96.0685</b>

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0725	0.0000	0.0725	0.0288	0.0000	0.0288	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0563	0.5666	0.4852	1.0900e-003		0.0234	0.0234		0.0215	0.0215	0.0000	95.4091	95.4091	0.0309	0.0000	96.1805
<b>Total</b>	<b>0.0563</b>	<b>0.5666</b>	<b>0.4852</b>	<b>1.0900e-003</b>	<b>0.0725</b>	<b>0.0234</b>	<b>0.0959</b>	<b>0.0288</b>	<b>0.0215</b>	<b>0.0503</b>	<b>0.0000</b>	<b>95.4091</b>	<b>95.4091</b>	<b>0.0309</b>	<b>0.0000</b>	<b>96.1805</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 Grading - 2024**

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	3.7700e-003	0.2159	0.0456	9.3000e-004	0.0264	1.8900e-003	0.0283	7.2700e-003	1.8100e-003	9.0800e-003	0.0000	89.6398	89.6398	9.8000e-004	0.0141	93.8717
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	6.1000e-004	8.0300e-003	2.0000e-005	2.7600e-003	1.0000e-005	2.7800e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.1777	2.1777	6.0000e-005	6.0000e-005	2.1968
<b>Total</b>	<b>4.7500e-003</b>	<b>0.2165</b>	<b>0.0536</b>	<b>9.5000e-004</b>	<b>0.0292</b>	<b>1.9000e-003</b>	<b>0.0311</b>	<b>8.0100e-003</b>	<b>1.8200e-003</b>	<b>9.8300e-003</b>	<b>0.0000</b>	<b>91.8175</b>	<b>91.8175</b>	<b>1.0400e-003</b>	<b>0.0142</b>	<b>96.0665</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1126	1.0285	1.2368	2.0600e-003		0.0469	0.0469		0.0441	0.0441	0.0000	177.3646	177.3646	0.0419	0.0000	178.4131
<b>Total</b>	<b>0.1126</b>	<b>1.0285</b>	<b>1.2368</b>	<b>2.0600e-003</b>		<b>0.0469</b>	<b>0.0469</b>		<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>177.3646</b>	<b>177.3646</b>	<b>0.0419</b>	<b>0.0000</b>	<b>178.4131</b>

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**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	5.5300e-003	0.2166	0.0650	9.1000e-004	0.0296	1.3300e-003	0.0309	8.5600e-003	1.2700e-003	9.6300e-003	0.0000	87.3909	87.3909	7.1000e-004	0.0130	91.2869
Worker	0.0354	0.0220	0.2896	8.4000e-004	0.0997	5.1000e-004	0.1002	0.0265	4.7000e-004	0.0270	0.0000	78.5361	78.5361	2.2400e-003	2.1300e-003	79.2266
<b>Total</b>	<b>0.0409</b>	<b>0.2386</b>	<b>0.3546</b>	<b>1.7500e-003</b>	<b>0.1293</b>	<b>1.8400e-003</b>	<b>0.1311</b>	<b>0.0351</b>	<b>1.7400e-003</b>	<b>0.0368</b>	<b>0.0000</b>	<b>165.9270</b>	<b>165.9270</b>	<b>2.9500e-003</b>	<b>0.0151</b>	<b>170.5135</b>

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1126	1.0285	1.2368	2.0600e-003		0.0469	0.0469	0.0441	0.0441	0.0441	0.0000	177.3644	177.3644	0.0419	0.0000	178.4129
<b>Total</b>	<b>0.1126</b>	<b>1.0285</b>	<b>1.2368</b>	<b>2.0600e-003</b>		<b>0.0469</b>	<b>0.0469</b>	<b>0.0441</b>	<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>177.3644</b>	<b>177.3644</b>	<b>0.0419</b>	<b>0.0000</b>	<b>178.4129</b>



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**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	5.5300e-003	0.2166	0.0650	9.1000e-004	0.0296	1.3300e-003	0.0309	8.5600e-003	1.2700e-003	9.6300e-003	0.0000	87.3909	87.3909	7.1000e-004	0.0130	91.2869
Worker	0.0354	0.0220	0.2896	8.4000e-004	0.0997	5.1000e-004	0.1002	0.0265	4.7000e-004	0.0270	0.0000	78.5361	78.5361	2.2400e-003	2.1300e-003	79.2266
<b>Total</b>	<b>0.0409</b>	<b>0.2386</b>	<b>0.3546</b>	<b>1.7500e-003</b>	<b>0.1293</b>	<b>1.8400e-003</b>	<b>0.1311</b>	<b>0.0351</b>	<b>1.7400e-003</b>	<b>0.0368</b>	<b>0.0000</b>	<b>165.9270</b>	<b>165.9270</b>	<b>2.9500e-003</b>	<b>0.0151</b>	<b>170.5135</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1484	1.3530	1.7452	2.9300e-003		0.0572	0.0572		0.0538	0.0538	0.0000	251.6326	251.6326	0.0592	0.0000	253.1114
<b>Total</b>	<b>0.1484</b>	<b>1.3530</b>	<b>1.7452</b>	<b>2.9300e-003</b>		<b>0.0572</b>	<b>0.0572</b>		<b>0.0538</b>	<b>0.0538</b>	<b>0.0000</b>	<b>251.6326</b>	<b>251.6326</b>	<b>0.0592</b>	<b>0.0000</b>	<b>253.1114</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 Building Construction - 2025**  
**Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	7.5900e-003	0.3029	0.0901	1.2600e-003	0.0420	1.8600e-003	0.0438	0.0122	1.7800e-003	0.0139	0.0000	121.4047	121.4047	9.8000e-004	0.0181	126.8218
Worker	0.0470	0.0280	0.3836	1.1500e-003	0.1414	6.9000e-004	0.1421	0.0376	6.3000e-004	0.0382	0.0000	108.6789	108.6789	2.8800e-003	2.8200e-003	109.5909
<b>Total</b>	<b>0.0545</b>	<b>0.3309</b>	<b>0.4737</b>	<b>2.4100e-003</b>	<b>0.1834</b>	<b>2.5500e-003</b>	<b>0.1859</b>	<b>0.0498</b>	<b>2.4100e-003</b>	<b>0.0522</b>	<b>0.0000</b>	<b>230.0836</b>	<b>230.0836</b>	<b>3.8600e-003</b>	<b>0.0209</b>	<b>236.4127</b>

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1484	1.3530	1.7452	2.9300e-003		0.0572	0.0572		0.0538	0.0538	0.0000	251.6323	251.6323	0.0592	0.0000	253.1111
<b>Total</b>	<b>0.1484</b>	<b>1.3530</b>	<b>1.7452</b>	<b>2.9300e-003</b>		<b>0.0572</b>	<b>0.0572</b>		<b>0.0538</b>	<b>0.0538</b>	<b>0.0000</b>	<b>251.6323</b>	<b>251.6323</b>	<b>0.0592</b>	<b>0.0000</b>	<b>253.1111</b>

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**3.5 Building Construction - 2025**

**Mitigated Construction Off-Site**

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	7.5900e-003	0.3029	0.0901	1.2600e-003	0.0420	1.8600e-003	0.0438	0.0122	1.7800e-003	0.0139	0.0000	121.4047	121.4047	9.6000e-004	0.0181	126.8218
Worker	0.0470	0.0280	0.3836	1.1500e-003	0.1414	6.9000e-004	0.1421	0.0376	6.3000e-004	0.0382	0.0000	108.6789	108.6789	2.8800e-003	2.8200e-003	109.5909
<b>Total</b>	<b>0.0545</b>	<b>0.3309</b>	<b>0.4737</b>	<b>2.4100e-003</b>	<b>0.1834</b>	<b>2.5500e-003</b>	<b>0.1859</b>	<b>0.0498</b>	<b>2.4100e-003</b>	<b>0.0522</b>	<b>0.0000</b>	<b>230.0836</b>	<b>230.0836</b>	<b>3.5600e-003</b>	<b>0.0209</b>	<b>236.4127</b>

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	9.1500e-003	0.0858	0.1458	2.3000e-004	4.1900e-003	4.1900e-003	4.1900e-003	3.8500e-003	3.8500e-003	3.8500e-003	0.0000	20.0193	20.0193	6.4700e-003	0.0000	20.1811
Paving	8.0000e-003				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0172</b>	<b>0.0858</b>	<b>0.1458</b>	<b>2.3000e-004</b>	<b>4.1900e-003</b>	<b>4.1900e-003</b>	<b>4.1900e-003</b>	<b>3.8500e-003</b>	<b>3.8500e-003</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>20.0193</b>	<b>20.0193</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>20.1811</b>

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

**3.6 Paving - 2025**

**Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	3.9000e-004	2.3000e-004	3.2100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9106	0.9106	2.0000e-005	2.0000e-005	0.9182
<b>Total</b>	<b>3.9000e-004</b>	<b>2.3000e-004</b>	<b>3.2100e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9106</b>	<b>0.9106</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9182</b>

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	9.1500e-003	0.0858	0.1458	2.3000e-004	4.1900e-003	4.1900e-003	4.1900e-003	3.8500e-003	3.8500e-003	3.8500e-003	0.0000	20.0192	20.0192	6.4700e-003	0.0000	20.1811
Paving	8.0000e-003				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0172</b>	<b>0.0858</b>	<b>0.1458</b>	<b>2.3000e-004</b>	<b>4.1900e-003</b>	<b>4.1900e-003</b>	<b>4.1900e-003</b>	<b>3.8500e-003</b>	<b>3.8500e-003</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>20.0192</b>	<b>20.0192</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>20.1811</b>

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

**3.6 Paving - 2025**

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	3.9000e-004	2.3000e-004	3.2100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9106	0.9106	2.0000e-005	2.0000e-005	0.9182
<b>Total</b>	<b>3.9000e-004</b>	<b>2.3000e-004</b>	<b>3.2100e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9106</b>	<b>0.9106</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9182</b>

**3.7 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	4.1185					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005	5.2000e-004	5.2000e-004	5.2000e-004	5.2000e-004	5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
<b>Total</b>	<b>4.1202</b>	<b>0.0115</b>	<b>0.0181</b>	<b>3.0000e-005</b>	<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.5567</b>

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

**3.7 Architectural Coating - 2025  
Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	5.2000e-004	7.0700e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.0000e-004	0.0000	2.0033	2.0033	5.0000e-005	5.0000e-005	2.0201
<b>Total</b>	<b>8.7000e-004</b>	<b>5.2000e-004</b>	<b>7.0700e-003</b>	<b>2.0000e-005</b>	<b>2.6100e-003</b>	<b>1.0000e-005</b>	<b>2.6200e-003</b>	<b>6.9000e-004</b>	<b>1.0000e-005</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>2.0033</b>	<b>2.0033</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>2.0201</b>

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	4.1185					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005	5.2000e-004	5.2000e-004	5.2000e-004	5.2000e-004	5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
<b>Total</b>	<b>4.1202</b>	<b>0.0115</b>	<b>0.0181</b>	<b>3.0000e-005</b>	<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.5567</b>

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

**3.7 Architectural Coating - 2025**

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	5.2000e-004	7.0700e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.0000e-004	0.0000	2.0033	2.0033	5.0000e-005	5.0000e-005	2.0201
<b>Total</b>	<b>8.7000e-004</b>	<b>5.2000e-004</b>	<b>7.0700e-003</b>	<b>2.0000e-005</b>	<b>2.6100e-003</b>	<b>1.0000e-005</b>	<b>2.6200e-003</b>	<b>6.9000e-004</b>	<b>1.0000e-005</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>2.0033</b>	<b>2.0033</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>2.0201</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	0.7158	1.0499	6.5199	0.0136	1.4007	0.0122	1.4129	0.3749	0.0115	0.3864	0.0000	1,288.6285	1,288.6285	0.0823	0.0673	1,310.7522
Unmitigated	0.7158	1.0499	6.5199	0.0136	1.4007	0.0122	1.4129	0.3749	0.0115	0.3864	0.0000	1,288.6285	1,288.6285	0.0823	0.0673	1,310.7522

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	632.48	639.18	572.85	1,726,695	1,726,695
Single Family Housing	755.20	763.20	684.00	2,061,726	2,061,726
Total	1,387.68	1,402.38	1,256.85	3,788,421	3,788,421

**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-S or C-C	H-O or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	86	11	3
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.521099	0.056036	0.184694	0.137673	0.031367	0.007201	0.013638	0.013587	0.000723	0.000488	0.028505	0.001049	0.003940



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

Single Family Housing	0.521099	0.056036	0.184694	0.137673	0.031367	0.007201	0.013638	0.013587	0.000723	0.000488	0.028505	0.001049	0.003940
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	311.2407	311.2407	0.0153	3.1600e-003	312.5657
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	311.2407	311.2407	0.0153	3.1600e-003	312.5657
NaturalGas Mitigated	0.0188	0.1603	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130	0.0000	185.5911	185.5911	3.5600e-003	3.4000e-003	186.6939
NaturalGas Unmitigated	0.0188	0.1603	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130	0.0000	185.5911	185.5911	3.5600e-003	3.4000e-003	186.6939

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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**

Land Use	NaturalGas Use kBTU/yr	tons/yr										MT/yr						
		ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Other Asphalt Surfaces	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	0.0000	0.0000	0.0000
Single Family Housing	1.58514e+006	8.5500e-003	0.0730	0.0311	4.7000e-004	5.9100e-003	5.9100e-003	5.9100e-003	5.9100e-003	5.9100e-003	5.9100e-003	0.0000	84.5891	84.5891	1.6200e-003	1.5500e-003	85.0918	85.0918
Single Family Housing	1.8927e+006	0.0102	0.0872	0.0371	5.6000e-004	7.0500e-003	7.0500e-003	7.0500e-003	7.0500e-003	7.0500e-003	7.0500e-003	0.0000	101.0019	101.0019	1.9400e-003	1.8500e-003	101.6021	101.6021
<b>Total</b>		<b>0.0188</b>	<b>0.1603</b>	<b>0.0682</b>	<b>1.0300e-003</b>	<b>0.0130</b>	<b>0.0130</b>	<b>0.0130</b>	<b>0.0130</b>	<b>0.0130</b>	<b>0.0130</b>	<b>0.0000</b>	<b>185.5911</b>	<b>185.5911</b>	<b>3.5600e-003</b>	<b>3.4000e-003</b>	<b>186.6939</b>	<b>186.6939</b>

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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**

Mitigated

Land Use	NaturalGas Use kBTU/yr	tons/yr										MT/yr					CO2e
		ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	
Other Asphalt Surfaces	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	0.0000	0.0000
Single Family Housing	1.58514e+006	8.5500e-003	0.0730	0.0311	4.7000e-004	5.9100e-003	5.9100e-003	5.9100e-003	5.9100e-003	5.9100e-003	0.0000	84.5891	84.5891	1.6200e-003	1.5500e-003	1.5500e-003	85.0918
Single Family Housing	1.8927e+006	0.0102	0.0872	0.0371	5.6000e-004	7.0500e-003	7.0500e-003	7.0500e-003	7.0500e-003	7.0500e-003	0.0000	101.0019	101.0019	1.9400e-003	1.8500e-003	1.8500e-003	101.6021
<b>Total</b>		<b>0.0188</b>	<b>0.1603</b>	<b>0.0682</b>	<b>1.0300e-003</b>	<b>0.0130</b>	<b>0.0130</b>	<b>0.0130</b>	<b>0.0130</b>	<b>0.0130</b>	<b>0.0000</b>	<b>185.5911</b>	<b>185.5911</b>	<b>3.5600e-003</b>	<b>3.4000e-003</b>	<b>3.4000e-003</b>	<b>186.6939</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

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	529795	141.8580	6.9700e-003	1.4400e-003	142.4619
Single Family Housing	632591	169.3827	8.3200e-003	1.7200e-003	170.1038
<b>Total</b>		<b>311.2407</b>	<b>0.0153</b>	<b>3.1600e-003</b>	<b>312.5657</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**

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	529795	141.8580	6.9700e-003	1.4400e-003	142.4619
Single Family Housing	632591	169.3827	8.3200e-003	1.7200e-003	170.1038
<b>Total</b>		<b>311.2407</b>	<b>0.0153</b>	<b>3.1600e-003</b>	<b>312.5657</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Use Low VOC Cleaning Supplies

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Mitigated	2.8188	0.0126	1.0905	6.0000e-005		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	1.7830	1.7830	1.7100e-003	0.0000	1.8257
Unmitigated	21.4566	0.3728	23.8618	0.0413		3.1988	3.1988		3.1988	3.1988	303.6896	129.1460	432.8356	0.2820	0.0239	447.0031

**6.2 Area by SubCategory**

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Architectural Coating	0.4119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.5647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	18.4474	0.3603	22.7713	0.0413		3.1928	3.1928		3.1928	3.1928	303.6896	127.3630	431.0525	0.2803	0.0239	445.1774
Landscaping	0.0328	0.0126	1.0905	6.0000e-005		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	1.7830	1.7830	1.7100e-003	0.0000	1.8257
<b>Total</b>	<b>21.4566</b>	<b>0.3728</b>	<b>23.8618</b>	<b>0.0413</b>		<b>3.1988</b>	<b>3.1988</b>		<b>3.1988</b>	<b>3.1988</b>	<b>303.6896</b>	<b>129.1460</b>	<b>432.8356</b>	<b>0.2820</b>	<b>0.0239</b>	<b>447.0031</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

SubCategory	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Architectural Coating	0.4119					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3742					0.0000	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	0.0328	0.0126	1.0905	6.0000e-005		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	1.7830	1.7830	1.7100e-003	0.0000	1.8257	
<b>Total</b>	<b>2.8188</b>	<b>0.0126</b>	<b>1.0905</b>	<b>6.0000e-005</b>		<b>6.0500e-003</b>	<b>6.0500e-003</b>		<b>6.0500e-003</b>	<b>6.0500e-003</b>	<b>0.0000</b>	<b>1.7830</b>	<b>1.7830</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>1.8257</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 Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	22.5738	0.3131	7.5700e-003	32.6551
Unmitigated	22.5738	0.3131	7.5700e-003	32.6551

**7.2 Water by Land Use**

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.57764 / 6.03808	22.5738	0.3131	7.5700e-003	32.6551
<b>Total</b>		<b>22.5738</b>	<b>0.3131</b>	<b>7.5700e-003</b>	<b>32.6551</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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.57764 / 6.03808	22.5738	0.3131	7.5700e-003	32.6551
<b>Total</b>		<b>22.5738</b>	<b>0.3131</b>	<b>7.5700e-003</b>	<b>32.6551</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	30.3776	1.7953	0.0000	75.2592

**8.2 Waste by Land Use**

Unmitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
		MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	149.65	30.3776	1.7953	0.0000	75.2592
<b>Total</b>		<b>30.3776</b>	<b>1.7953</b>	<b>0.0000</b>	<b>75.2592</b>

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**8.2 Waste by Land Use**

Mitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Other Asphalt Surfaces		0.0000	0.0000	0.0000	0.0000
Single Family Housing		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**

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**

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	0.0000	0.0000	0.0000	0.0000

**11.1 Vegetation Land Change**

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Wetlands	3.88 / 2.31	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>