

Veterans Memorial Park - San Diego County, Annual

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

**Veterans Memorial Park  
San Diego County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.00	1000sqft	0.05	2,000.00	0
Parking Lot	103.00	Space	0.93	41,200.00	0
City Park	29.00	Acre	29.00	1,263,240.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2025
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<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 - 30 acre total site based on estimate of area to be graded

Building for purpose of utility, consumer factors

Construction Phase - Construction schedule per applicant

Off-road Equipment -

Off-road Equipment - 2 small buildings

Off-road Equipment - Demo limited to V ditch removal

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Staging area const & brush clearing



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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	23.00
tblConstructionPhase	NumDays	440.00	199.00
tblConstructionPhase	NumDays	30.00	23.00
tblConstructionPhase	NumDays	45.00	133.00
tblConstructionPhase	NumDays	35.00	23.00
tblConstructionPhase	NumDays	20.00	45.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24NG	15.83	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	VendorTripNumber	214.00	6.00
tblTripsAndVMT	WorkerTripNumber	549.00	50.00
tblTripsAndVMT	WorkerTripNumber	110.00	6.00
tblVehicleTrips	CC_TL	7.30	3.66
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.30	3.66

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tblVehicleTrips	CNW_TTP	19.00	100.00
tblVehicleTrips	CW_TL	9.50	3.66
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	ST_TR	1.96	37.90
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	SU_TR	2.19	37.90
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	WD_TR	0.78	30.79
tblVehicleTrips	WD_TR	9.74	0.00
tblWater	OutdoorWaterUseRate	34,552,959.14	14,965,000.00
tblWater	OutdoorWaterUseRate	217,867.17	0.00

**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 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					
2023	0.1239	1.2651	1.0338	2.2600e-003	0.5304	0.0529	0.5833	0.1848	0.0488	0.2336			198.9419	0.0610	2.4000e-004	200.5375
2024	0.2140	1.9201	2.0255	4.2400e-003	0.5076	0.0797	0.5873	0.1726	0.0745	0.2470			370.2938	0.0890	2.4100e-003	373.2376
2025	0.0599	0.1729	0.2881	4.9000e-004	6.3400e-003	7.7200e-003	0.0141	1.7000e-003	7.2600e-003	8.9600e-003			42.7900	9.3600e-003	2.8000e-004	43.1083
<b>Maximum</b>	<b>0.2140</b>	<b>1.9201</b>	<b>2.0255</b>	<b>4.2400e-003</b>	<b>0.5304</b>	<b>0.0797</b>	<b>0.5873</b>	<b>0.1848</b>	<b>0.0745</b>	<b>0.2470</b>			<b>370.2938</b>	<b>0.0890</b>	<b>2.4100e-003</b>	<b>373.2376</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					
2023	0.0583	1.0699	1.3375	2.2600e-003	0.2424	0.0484	0.2907	0.0841	0.0484	0.1325			198.9417	0.0610	2.4000e-004	200.5373
2024	0.1079	1.9096	2.4295	4.2400e-003	0.2538	0.0972	0.3510	0.0844	0.0972	0.1816			370.2934	0.0890	2.4100e-003	373.2372
2025	0.0511	0.2200	0.3233	4.9000e-004	6.3400e-003	0.0129	0.0193	1.7000e-003	0.0129	0.0146			42.7900	9.3600e-003	2.8000e-004	43.1083
<b>Maximum</b>	<b>0.1079</b>	<b>1.9096</b>	<b>2.4295</b>	<b>4.2400e-003</b>	<b>0.2538</b>	<b>0.0972</b>	<b>0.3510</b>	<b>0.0844</b>	<b>0.0972</b>	<b>0.1816</b>			<b>370.2934</b>	<b>0.0890</b>	<b>2.4100e-003</b>	<b>373.2372</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	45.39	4.72	-22.19	0.00	51.88	-12.95	44.20	52.58	-21.41	32.85	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	7-19-2023	10-18-2023	0.4147	0.3190
2	10-19-2023	1-18-2024	1.1894	1.0011
3	1-19-2024	4-18-2024	1.1597	1.0267
4	4-19-2024	7-18-2024	0.2976	0.3069
5	7-19-2024	10-18-2024	0.2395	0.2591
6	10-19-2024	1-18-2025	0.2376	0.2598
7	1-19-2025	4-18-2025	0.1826	0.2134
		Highest	1.1894	1.0267

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0262	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.3900e-003	1.0000e-005	0.0000	2.5500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			9.8707	6.0000e-004	7.0000e-005	9.9076
Mobile	0.3313	0.2925	2.4834	4.4200e-003	0.4743	3.6800e-003	0.4780	0.1266	3.4200e-003	0.1300			408.3827	0.0378	0.0226	416.0732
Waste						0.0000	0.0000		0.0000	0.0000			0.8830	0.0522	0.0000	2.1876
Water						0.0000	0.0000		0.0000	0.0000			41.9689	0.0141	5.8000e-004	42.4964
<b>Total</b>	<b>0.3575</b>	<b>0.2925</b>	<b>2.4846</b>	<b>4.4200e-003</b>	<b>0.4743</b>	<b>3.6800e-003</b>	<b>0.4780</b>	<b>0.1266</b>	<b>3.4200e-003</b>	<b>0.1300</b>			<b>461.1078</b>	<b>0.1048</b>	<b>0.0233</b>	<b>470.6673</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	0.0262	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.3900e-003	1.0000e-005	0.0000	2.5500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			9.8707	6.0000e-004	7.0000e-005	9.9076
Mobile	0.3313	0.2925	2.4834	4.4200e-003	0.4743	3.6800e-003	0.4780	0.1266	3.4200e-003	0.1300			408.3827	0.0378	0.0226	416.0732
Waste						0.0000	0.0000		0.0000	0.0000			0.8830	0.0522	0.0000	2.1876
Water						0.0000	0.0000		0.0000	0.0000			8.7897	0.0107	3.0000e-004	9.1474
<b>Total</b>	<b>0.3575</b>	<b>0.2925</b>	<b>2.4846</b>	<b>4.4200e-003</b>	<b>0.4743</b>	<b>3.6800e-003</b>	<b>0.4780</b>	<b>0.1266</b>	<b>3.4200e-003</b>	<b>0.1300</b>			<b>427.9285</b>	<b>0.1013</b>	<b>0.0230</b>	<b>437.3184</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>7.20</b>	<b>3.30</b>	<b>1.20</b>	<b>7.09</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	7/19/2023	8/18/2023	5	23	
2	Site Preparation	Site Preparation	8/21/2023	10/20/2023	5	45	
3	Grading	Grading	10/23/2023	4/24/2024	5	133	



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4	Building Construction	Building Construction	4/25/2024	1/28/2025	5	199
5	Paving	Paving	1/29/2025	2/28/2025	5	23
6	Architectural Coating	Architectural Coating	3/3/2025	4/2/2025	5	23

**Acres of Grading (Site Preparation Phase): 45**

**Acres of Grading (Grading Phase): 399**

**Acres of Paving: 0.93**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,000; Non-Residential Outdoor: 1,000; Striped Parking Area: 2,472 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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	3	8.00	0.00	20.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	50.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**3.2 Demolition - 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					
Fugitive Dust					2.1700e-003	0.0000	2.1700e-003	3.3000e-004	0.0000	3.3000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	7.7500e-003	0.0652	0.1052	1.7000e-004		3.2200e-003	3.2200e-003		3.0800e-003	3.0800e-003			14.5467	3.0100e-003	0.0000	14.6220
<b>Total</b>	<b>7.7500e-003</b>	<b>0.0652</b>	<b>0.1052</b>	<b>1.7000e-004</b>	<b>2.1700e-003</b>	<b>3.2200e-003</b>	<b>5.3900e-003</b>	<b>3.3000e-004</b>	<b>3.0800e-003</b>	<b>3.4100e-003</b>			<b>14.5467</b>	<b>3.0100e-003</b>	<b>0.0000</b>	<b>14.6220</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005			0.6002	3.0000e-005	1.0000e-004	0.6293
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.7000e-004	2.1000e-003	1.0000e-005	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004			0.5838	2.0000e-005	2.0000e-005	0.5891
<b>Total</b>	<b>2.7000e-004</b>	<b>1.5300e-003</b>	<b>2.4600e-003</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>			<b>1.1839</b>	<b>5.0000e-005</b>	<b>1.2000e-004</b>	<b>1.2184</b>

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**3.2 Demolition - 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	tons/yr										MT/yr					
Fugitive Dust					9.7000e-004	0.0000	9.7000e-004	1.5000e-004	0.0000	1.5000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1700e-003	0.0779	0.1141	1.7000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003			14.5467	3.0100e-003	0.0000	14.6219
<b>Total</b>	<b>6.1700e-003</b>	<b>0.0779</b>	<b>0.1141</b>	<b>1.7000e-004</b>	<b>9.7000e-004</b>	<b>4.2400e-003</b>	<b>5.2100e-003</b>	<b>1.5000e-004</b>	<b>4.2400e-003</b>	<b>4.3900e-003</b>			<b>14.5467</b>	<b>3.0100e-003</b>	<b>0.0000</b>	<b>14.6219</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005			0.6002	3.0000e-005	1.0000e-004	0.6293
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.7000e-004	2.1000e-003	1.0000e-005	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004			0.5838	2.0000e-005	2.0000e-005	0.5891
<b>Total</b>	<b>2.7000e-004</b>	<b>1.5300e-003</b>	<b>2.4600e-003</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>			<b>1.1839</b>	<b>5.0000e-005</b>	<b>1.2000e-004</b>	<b>1.2184</b>

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**3.3 Site Preparation - 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					
Fugitive Dust					0.1594	0.0000	0.1594	0.0771	0.0000	0.0771			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0308	0.3342	0.2084	4.8000e-004		0.0140	0.0140		0.0129	0.0129			42.2727	0.0137	0.0000	42.6145
<b>Total</b>	<b>0.0308</b>	<b>0.3342</b>	<b>0.2084</b>	<b>4.8000e-004</b>	<b>0.1594</b>	<b>0.0140</b>	<b>0.1734</b>	<b>0.0771</b>	<b>0.0129</b>	<b>0.0900</b>			<b>42.2727</b>	<b>0.0137</b>	<b>0.0000</b>	<b>42.6145</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.2000e-004	5.1300e-003	2.0000e-005	1.8000e-003	1.0000e-005	1.8100e-003	4.8000e-004	1.0000e-005	4.9000e-004			1.4278	4.0000e-005	4.0000e-005	1.4407
<b>Total</b>	<b>6.1000e-004</b>	<b>4.2000e-004</b>	<b>5.1300e-003</b>	<b>2.0000e-005</b>	<b>1.8000e-003</b>	<b>1.0000e-005</b>	<b>1.8100e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>			<b>1.4278</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.4407</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 - 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	tons/yr										MT/yr					
Fugitive Dust					0.0717	0.0000	0.0717	0.0347	0.0000	0.0347			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.2396	0.2864	4.8000e-004		0.0116	0.0116		0.0116	0.0116			42.2727	0.0137	0.0000	42.6145
<b>Total</b>	<b>0.0118</b>	<b>0.2396</b>	<b>0.2864</b>	<b>4.8000e-004</b>	<b>0.0717</b>	<b>0.0116</b>	<b>0.0833</b>	<b>0.0347</b>	<b>0.0116</b>	<b>0.0463</b>			<b>42.2727</b>	<b>0.0137</b>	<b>0.0000</b>	<b>42.6145</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.2000e-004	5.1300e-003	2.0000e-005	1.8000e-003	1.0000e-005	1.8100e-003	4.8000e-004	1.0000e-005	4.9000e-004			1.4278	4.0000e-005	4.0000e-005	1.4407
<b>Total</b>	<b>6.1000e-004</b>	<b>4.2000e-004</b>	<b>5.1300e-003</b>	<b>2.0000e-005</b>	<b>1.8000e-003</b>	<b>1.0000e-005</b>	<b>1.8100e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>			<b>1.4278</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.4407</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 - 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					
Fugitive Dust					0.3621	0.0000	0.3621	0.1056	0.0000	0.1056			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0830	0.8629	0.7013	1.5500e-003		0.0356	0.0356		0.0328	0.0328			136.3380	0.0441	0.0000	137.4404
<b>Total</b>	<b>0.0830</b>	<b>0.8629</b>	<b>0.7013</b>	<b>1.5500e-003</b>	<b>0.3621</b>	<b>0.0356</b>	<b>0.3977</b>	<b>0.1056</b>	<b>0.0328</b>	<b>0.1384</b>			<b>136.3380</b>	<b>0.0441</b>	<b>0.0000</b>	<b>137.4404</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.3500e-003	9.4000e-004	0.0114	3.0000e-005	4.0100e-003	2.0000e-005	4.0300e-003	1.0700e-003	2.0000e-005	1.0900e-003			3.1728	9.0000e-005	9.0000e-005	3.2015
<b>Total</b>	<b>1.3500e-003</b>	<b>9.4000e-004</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>4.0100e-003</b>	<b>2.0000e-005</b>	<b>4.0300e-003</b>	<b>1.0700e-003</b>	<b>2.0000e-005</b>	<b>1.0900e-003</b>			<b>3.1728</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>3.2015</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 - 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	tons/yr										MT/yr					
Fugitive Dust					0.1630	0.0000	0.1630	0.0475	0.0000	0.0475			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0381	0.7495	0.9181	1.5500e-003		0.0325	0.0325		0.0325	0.0325			136.3379	0.0441	0.0000	137.4402
<b>Total</b>	<b>0.0381</b>	<b>0.7495</b>	<b>0.9181</b>	<b>1.5500e-003</b>	<b>0.1630</b>	<b>0.0325</b>	<b>0.1954</b>	<b>0.0475</b>	<b>0.0325</b>	<b>0.0800</b>			<b>136.3379</b>	<b>0.0441</b>	<b>0.0000</b>	<b>137.4402</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.3500e-003	9.4000e-004	0.0114	3.0000e-005	4.0100e-003	2.0000e-005	4.0300e-003	1.0700e-003	2.0000e-005	1.0900e-003			3.1728	9.0000e-005	9.0000e-005	3.2015
<b>Total</b>	<b>1.3500e-003</b>	<b>9.4000e-004</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>4.0100e-003</b>	<b>2.0000e-005</b>	<b>4.0300e-003</b>	<b>1.0700e-003</b>	<b>2.0000e-005</b>	<b>1.0900e-003</b>			<b>3.1728</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>3.2015</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 - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4615	0.0000	0.4615	0.1602	0.0000	0.1602			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1336	1.3436	1.1505	2.5800e-003		0.0554	0.0554		0.0510	0.0510			226.2560	0.0732	0.0000	228.0854
<b>Total</b>	<b>0.1336</b>	<b>1.3436</b>	<b>1.1505</b>	<b>2.5800e-003</b>	<b>0.4615</b>	<b>0.0554</b>	<b>0.5169</b>	<b>0.1602</b>	<b>0.0510</b>	<b>0.2112</b>			<b>226.2560</b>	<b>0.0732</b>	<b>0.0000</b>	<b>228.0854</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.1100e-003	1.4000e-003	0.0177	6.0000e-005	6.6600e-003	3.0000e-005	6.6900e-003	1.7700e-003	3.0000e-005	1.8000e-003			5.0944	1.4000e-004	1.4000e-004	5.1388
<b>Total</b>	<b>2.1100e-003</b>	<b>1.4000e-003</b>	<b>0.0177</b>	<b>6.0000e-005</b>	<b>6.6600e-003</b>	<b>3.0000e-005</b>	<b>6.6900e-003</b>	<b>1.7700e-003</b>	<b>3.0000e-005</b>	<b>1.8000e-003</b>			<b>5.0944</b>	<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>5.1388</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 - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2077	0.0000	0.2077	0.0721	0.0000	0.0721			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0632	1.2441	1.5240	2.5800e-003		0.0539	0.0539		0.0539	0.0539			226.2558	0.0732	0.0000	228.0851
<b>Total</b>	<b>0.0632</b>	<b>1.2441</b>	<b>1.5240</b>	<b>2.5800e-003</b>	<b>0.2077</b>	<b>0.0539</b>	<b>0.2616</b>	<b>0.0721</b>	<b>0.0539</b>	<b>0.1260</b>			<b>226.2558</b>	<b>0.0732</b>	<b>0.0000</b>	<b>228.0851</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.1100e-003	1.4000e-003	0.0177	6.0000e-005	6.6600e-003	3.0000e-005	6.6900e-003	1.7700e-003	3.0000e-005	1.8000e-003			5.0944	1.4000e-004	1.4000e-004	5.1388
<b>Total</b>	<b>2.1100e-003</b>	<b>1.4000e-003</b>	<b>0.0177</b>	<b>6.0000e-005</b>	<b>6.6600e-003</b>	<b>3.0000e-005</b>	<b>6.6900e-003</b>	<b>1.7700e-003</b>	<b>3.0000e-005</b>	<b>1.8000e-003</b>			<b>5.0944</b>	<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>5.1388</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 - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0663	0.5438	0.7539	1.2000e-003		0.0239	0.0239		0.0232	0.0232			100.8896	0.0146	0.0000	101.2543
<b>Total</b>	<b>0.0663</b>	<b>0.5438</b>	<b>0.7539</b>	<b>1.2000e-003</b>		<b>0.0239</b>	<b>0.0239</b>		<b>0.0232</b>	<b>0.0232</b>			<b>100.8896</b>	<b>0.0146</b>	<b>0.0000</b>	<b>101.2543</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	6.1000e-004	0.0237	8.2100e-003	1.1000e-004	3.5700e-003	1.4000e-004	3.7100e-003	1.0300e-003	1.4000e-004	1.1600e-003			10.5873	3.3000e-004	1.5300e-003	11.0527
Worker	0.0114	7.5300e-003	0.0953	3.0000e-004	0.0359	1.9000e-004	0.0361	9.5400e-003	1.7000e-004	9.7100e-003			27.4666	7.7000e-004	7.4000e-004	27.7064
<b>Total</b>	<b>0.0120</b>	<b>0.0312</b>	<b>0.1035</b>	<b>4.1000e-004</b>	<b>0.0395</b>	<b>3.3000e-004</b>	<b>0.0398</b>	<b>0.0106</b>	<b>3.1000e-004</b>	<b>0.0109</b>			<b>38.0538</b>	<b>1.1000e-003</b>	<b>2.2700e-003</b>	<b>38.7590</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 - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0306	0.6330	0.7844	1.2000e-003		0.0429	0.0429		0.0429	0.0429			100.8895	0.0146	0.0000	101.2541
<b>Total</b>	<b>0.0306</b>	<b>0.6330</b>	<b>0.7844</b>	<b>1.2000e-003</b>		<b>0.0429</b>	<b>0.0429</b>		<b>0.0429</b>	<b>0.0429</b>			<b>100.8895</b>	<b>0.0146</b>	<b>0.0000</b>	<b>101.2541</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	6.1000e-004	0.0237	8.2100e-003	1.1000e-004	3.5700e-003	1.4000e-004	3.7100e-003	1.0300e-003	1.4000e-004	1.1600e-003			10.5873	3.3000e-004	1.5300e-003	11.0527
Worker	0.0114	7.5300e-003	0.0953	3.0000e-004	0.0359	1.9000e-004	0.0361	9.5400e-003	1.7000e-004	9.7100e-003			27.4666	7.7000e-004	7.4000e-004	27.7064
<b>Total</b>	<b>0.0120</b>	<b>0.0312</b>	<b>0.1035</b>	<b>4.1000e-004</b>	<b>0.0395</b>	<b>3.3000e-004</b>	<b>0.0398</b>	<b>0.0106</b>	<b>3.1000e-004</b>	<b>0.0109</b>			<b>38.0538</b>	<b>1.1000e-003</b>	<b>2.2700e-003</b>	<b>38.7590</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 - 2025**

**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	6.8900e-003	0.0572	0.0840	1.3000e-004		2.2700e-003	2.2700e-003		2.2000e-003	2.2000e-003			11.2749	1.6000e-003	0.0000	11.3148
<b>Total</b>	<b>6.8900e-003</b>	<b>0.0572</b>	<b>0.0840</b>	<b>1.3000e-004</b>		<b>2.2700e-003</b>	<b>2.2700e-003</b>		<b>2.2000e-003</b>	<b>2.2000e-003</b>			<b>11.2749</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>11.3148</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.6200e-003	9.0000e-004	1.0000e-005	4.0000e-004	2.0000e-005	4.1000e-004	1.2000e-004	2.0000e-005	1.3000e-004			1.1604	4.0000e-005	1.7000e-004	1.2114
Worker	1.2000e-003	7.6000e-004	9.9800e-003	3.0000e-005	4.0100e-003	2.0000e-005	4.0300e-003	1.0700e-003	2.0000e-005	1.0800e-003			2.9645	8.0000e-005	8.0000e-005	2.9896
<b>Total</b>	<b>1.2700e-003</b>	<b>3.3800e-003</b>	<b>0.0109</b>	<b>4.0000e-005</b>	<b>4.4100e-003</b>	<b>4.0000e-005</b>	<b>4.4400e-003</b>	<b>1.1900e-003</b>	<b>4.0000e-005</b>	<b>1.2100e-003</b>			<b>4.1249</b>	<b>1.2000e-004</b>	<b>2.5000e-004</b>	<b>4.2010</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 - 2025**

**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	3.4200e-003	0.0707	0.0876	1.3000e-004		4.7900e-003	4.7900e-003		4.7900e-003	4.7900e-003			11.2749	1.6000e-003	0.0000	11.3148
<b>Total</b>	<b>3.4200e-003</b>	<b>0.0707</b>	<b>0.0876</b>	<b>1.3000e-004</b>		<b>4.7900e-003</b>	<b>4.7900e-003</b>		<b>4.7900e-003</b>	<b>4.7900e-003</b>			<b>11.2749</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>11.3148</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.6200e-003	9.0000e-004	1.0000e-005	4.0000e-004	2.0000e-005	4.1000e-004	1.2000e-004	2.0000e-005	1.3000e-004			1.1604	4.0000e-005	1.7000e-004	1.2114
Worker	1.2000e-003	7.6000e-004	9.9800e-003	3.0000e-005	4.0100e-003	2.0000e-005	4.0300e-003	1.0700e-003	2.0000e-005	1.0800e-003			2.9645	8.0000e-005	8.0000e-005	2.9896
<b>Total</b>	<b>1.2700e-003</b>	<b>3.3800e-003</b>	<b>0.0109</b>	<b>4.0000e-005</b>	<b>4.4100e-003</b>	<b>4.0000e-005</b>	<b>4.4400e-003</b>	<b>1.1900e-003</b>	<b>4.0000e-005</b>	<b>1.2100e-003</b>			<b>4.1249</b>	<b>1.2000e-004</b>	<b>2.5000e-004</b>	<b>4.2010</b>

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

**3.6 Paving - 2025**

**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	0.0105	0.0987	0.1677	2.6000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003			23.0221	7.4500e-003	0.0000	23.2083
Paving	1.2200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0117</b>	<b>0.0987</b>	<b>0.1677</b>	<b>2.6000e-004</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>		<b>4.4300e-003</b>	<b>4.4300e-003</b>			<b>23.0221</b>	<b>7.4500e-003</b>	<b>0.0000</b>	<b>23.2083</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	2.6000e-004	3.4400e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004			1.0228	3.0000e-005	3.0000e-005	1.0314
<b>Total</b>	<b>4.1000e-004</b>	<b>2.6000e-004</b>	<b>3.4400e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>			<b>1.0228</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0314</b>

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**3.6 Paving - 2025**

**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	6.4500e-003	0.1299	0.1989	2.6000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003			23.0221	7.4500e-003	0.0000	23.2083
Paving	1.2200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.6700e-003</b>	<b>0.1299</b>	<b>0.1989</b>	<b>2.6000e-004</b>		<b>7.0100e-003</b>	<b>7.0100e-003</b>		<b>7.0100e-003</b>	<b>7.0100e-003</b>			<b>23.0221</b>	<b>7.4500e-003</b>	<b>0.0000</b>	<b>23.2083</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	2.6000e-004	3.4400e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004			1.0228	3.0000e-005	3.0000e-005	1.0314
<b>Total</b>	<b>4.1000e-004</b>	<b>2.6000e-004</b>	<b>3.4400e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>			<b>1.0228</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0314</b>



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**3.7 Architectural Coating - 2025**

**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	0.0375					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004			2.9362	1.6000e-004	0.0000	2.9403
<b>Total</b>	<b>0.0395</b>	<b>0.0132</b>	<b>0.0208</b>	<b>3.0000e-005</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>			<b>2.9362</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.9403</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.1000e-004	1.3800e-003	0.0000	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004			0.4091	1.0000e-005	1.0000e-005	0.4126
<b>Total</b>	<b>1.7000e-004</b>	<b>1.1000e-004</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.6000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>			<b>0.4091</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4126</b>

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

**3.7 Architectural Coating - 2025**

**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	0.0375					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	0.0156	0.0211	3.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003			2.9362	1.6000e-004	0.0000	2.9402
<b>Total</b>	<b>0.0382</b>	<b>0.0156</b>	<b>0.0211</b>	<b>3.0000e-005</b>		<b>1.0900e-003</b>	<b>1.0900e-003</b>		<b>1.0900e-003</b>	<b>1.0900e-003</b>			<b>2.9362</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.9402</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.1000e-004	1.3800e-003	0.0000	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004			0.4091	1.0000e-005	1.0000e-005	0.4126
<b>Total</b>	<b>1.7000e-004</b>	<b>1.1000e-004</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.6000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>			<b>0.4091</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4126</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	0.3313	0.2925	2.4834	4.4200e-003	0.4743	3.6800e-003	0.4780	0.1266	3.4200e-003	0.1300			408.3827	0.0378	0.0226	416.0732
Unmitigated	0.3313	0.2925	2.4834	4.4200e-003	0.4743	3.6800e-003	0.4780	0.1266	3.4200e-003	0.1300			408.3827	0.0378	0.0226	416.0732

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	892.91	1,099.10	1099.10	1,268,055	1,268,055
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	892.91	1,099.10	1,099.10	1,268,055	1,268,055

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	3.66	3.66	3.66	0.00	0.00	100.00	100	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
General Office Building	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Parking Lot	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			9.8707	6.0000e-004	7.0000e-005	9.9076
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			9.8707	6.0000e-004	7.0000e-005	9.9076
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

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

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
General Office Building	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**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	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
General Office Building	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	25880	6.3388	3.9000e-004	5.0000e-005	6.3625
Parking Lot	14420	3.5319	2.2000e-004	3.0000e-005	3.5451
<b>Total</b>		<b>9.8707</b>	<b>6.1000e-004</b>	<b>8.0000e-005</b>	<b>9.9076</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**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	25880	6.3388	3.9000e-004	5.0000e-005	6.3625
Parking Lot	14420	3.5319	2.2000e-004	3.0000e-005	3.5451
<b>Total</b>		<b>9.8707</b>	<b>6.1000e-004</b>	<b>8.0000e-005</b>	<b>9.9076</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	0.0262	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.3900e-003	1.0000e-005	0.0000	2.5500e-003
Unmitigated	0.0262	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.3900e-003	1.0000e-005	0.0000	2.5500e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.7500e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0224					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.3900e-003	1.0000e-005	0.0000	2.5500e-003
<b>Total</b>	<b>0.0262</b>	<b>1.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>2.3900e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.5500e-003</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	3.7500e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0224					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.3900e-003	1.0000e-005	0.0000	2.5500e-003
<b>Total</b>	<b>0.0262</b>	<b>1.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>2.3900e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.5500e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.7897	0.0107	3.0000e-004	9.1474
Unmitigated	41.9689	0.0141	5.8000e-004	42.4964

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 14.965	40.7225	2.4900e-003	3.0000e-004	40.8746
General Office Building	0.355467 / 0	1.2465	0.0117	2.8000e-004	1.6218
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>41.9689</b>	<b>0.0141</b>	<b>5.8000e-004</b>	<b>42.4964</b>

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**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.82867	7.6973	4.7000e-004	6.0000e-005	7.7261
General Office Building	0.311532 / 0	1.0924	0.0102	2.5000e-004	1.4213
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.7897</b>	<b>0.0107</b>	<b>3.1000e-004</b>	<b>9.1474</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.8830	0.0522	0.0000	2.1876
Unmitigated	0.8830	0.0522	0.0000	2.1876

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	2.49	0.5055	0.0299	0.0000	1.2522
General Office Building	1.86	0.3776	0.0223	0.0000	0.9354
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.8830</b>	<b>0.0522</b>	<b>0.0000</b>	<b>2.1876</b>

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**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	2.49	0.5055	0.0299	0.0000	1.2522
General Office Building	1.86	0.3776	0.0223	0.0000	0.9354
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.8830</b>	<b>0.0522</b>	<b>0.0000</b>	<b>2.1876</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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