

Draft Initial Study/Mitigated Negative Declaration
Valley View Development Project

APPENDIX C – TECHNICAL STUDIES

Draft Initial Study/Mitigated Negative Declaration
Valley View Development Project

APPENDIX C.1 –AIR MODELING: CALEEMOD RESULTS

Bonita - Valley View Road - San Diego County APCD Air District, Annual

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

**Bonita - Valley View Road
San Diego County APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.11	1,800.00	3
Single Family Housing	1.00	Dwelling Unit	0.11	1,800.00	3
Single Family Housing	1.00	Dwelling Unit	0.12	1,800.00	3
Single Family Housing	1.00	Dwelling Unit	0.12	1,800.00	3
Single Family Housing	1.00	Dwelling Unit	0.12	1,800.00	3
Single Family Housing	1.00	Dwelling Unit	0.15	1,800.00	3
Single Family Housing	1.00	Dwelling Unit	0.14	1,800.00	3
Single Family Housing	1.00	Dwelling Unit	0.12	1,800.00	3
Single Family Housing	1.00	Dwelling Unit	0.12	1,800.00	3
Single Family Housing	1.00	Dwelling Unit	0.15	1,800.00	3
Other Asphalt Surfaces	20.97	1000sqft	0.48	20,972.00	0
User Defined Recreational	5,934.00	User Defined Unit	0.00	5,934.00	0
User Defined Recreational	6,667.00	User Defined Unit	0.00	6,667.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - 10 residential lots - acreage from project data

Paved private road - acreage from project data

Bioretention field - acreage from project data

Drainage area - acreage from project data

Construction Phase - Project-specific data - Construction Schedule duration is from August 2023 to December 2023

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	79.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	PhaseEndDate	7/9/2024	12/29/2023
tblConstructionPhase	PhaseEndDate	6/11/2024	12/1/2023
tblConstructionPhase	PhaseEndDate	8/28/2023	8/7/2023
tblConstructionPhase	PhaseEndDate	9/5/2023	8/14/2023
tblConstructionPhase	PhaseEndDate	6/25/2024	12/15/2023
tblConstructionPhase	PhaseEndDate	8/30/2023	8/8/2023
tblConstructionPhase	PhaseStartDate	6/26/2024	12/18/2023
tblConstructionPhase	PhaseStartDate	9/6/2023	8/15/2023
tblConstructionPhase	PhaseStartDate	8/31/2023	8/9/2023
tblConstructionPhase	PhaseStartDate	6/12/2024	12/4/2023
tblConstructionPhase	PhaseStartDate	8/29/2023	8/7/2023
tblLandUse	LandUseSquareFeet	0.00	5,934.00
tblLandUse	LandUseSquareFeet	0.00	6,667.00
tblLandUse	LotAcreage	0.32	0.11
tblLandUse	LotAcreage	0.32	0.11
tblLandUse	LotAcreage	0.32	0.12
tblLandUse	LotAcreage	0.32	0.12
tblLandUse	LotAcreage	0.32	0.12
tblLandUse	LotAcreage	0.32	0.12
tblLandUse	LotAcreage	0.32	0.15

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

tblLandUse	LotAcreage	0.32	0.14
tblLandUse	LotAcreage	0.32	0.12
tblLandUse	LotAcreage	0.32	0.12
tblLandUse	LotAcreage	0.32	0.15
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2023	9-30-2023	0.3272	0.3272
		Highest	0.3272	0.3272

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	6.4520	0.1245	7.9356	0.0140		1.0868	1.0868		1.0868	1.0868	103.2958	43.6676	146.9633	0.0960	8.1200e-003	151.7854
Energy	1.1600e-003	9.9400e-003	4.2300e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	30.7054	30.7054	1.3900e-003	3.5000e-004	30.8455
Mobile	0.0564	0.0702	0.5710	1.2400e-003	0.1291	9.6000e-004	0.1301	0.0345	9.0000e-004	0.0354	0.0000	114.8178	114.8178	7.7100e-003	5.0200e-003	116.5060
Waste						0.0000	0.0000		0.0000	0.0000	2.4968	0.0000	2.4968	0.1476	0.0000	6.1857
Water						0.0000	0.0000		0.0000	0.0000	0.2067	3.1957	3.4024	0.0214	5.2000e-004	4.0944
Total	6.5096	0.2046	8.5108	0.0153	0.1291	1.0886	1.2177	0.0345	1.0885	1.1230	105.9993	192.3864	298.3856	0.2741	0.0140	309.4171

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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

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	6.4520	0.1245	7.9356	0.0140		1.0868	1.0868		1.0868	1.0868	103.2958	43.6676	146.9633	0.0960	8.1200e-003	151.7854
Energy	1.1600e-003	9.9400e-003	4.2300e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	30.7054	30.7054	1.3900e-003	3.5000e-004	30.8455
Mobile	0.0564	0.0702	0.5710	1.2400e-003	0.1291	9.6000e-004	0.1301	0.0345	9.0000e-004	0.0354	0.0000	114.8178	114.8178	7.7100e-003	5.0200e-003	116.5060
Waste						0.0000	0.0000		0.0000	0.0000	2.4968	0.0000	2.4968	0.1476	0.0000	6.1857
Water						0.0000	0.0000		0.0000	0.0000	0.2067	3.1957	3.4024	0.0214	5.2000e-004	4.0944
Total	6.5096	0.2046	8.5108	0.0153	0.1291	1.0886	1.2177	0.0345	1.0885	1.1230	105.9993	192.3864	298.3856	0.2741	0.0140	309.4171

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2023	8/7/2023	5	5	
2	Site Preparation	Site Preparation	8/7/2023	8/8/2023	5	2	
3	Grading	Grading	8/9/2023	8/14/2023	5	4	

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4	Building Construction	Building Construction	8/15/2023	12/1/2023	5	79
5	Paving	Paving	12/4/2023	12/15/2023	5	10
6	Architectural Coating	Architectural Coating	12/18/2023	12/29/2023	5	10

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.48

Residential Indoor: 36,450; Residential Outdoor: 12,150; Non-Residential Indoor: 18,902; Non-Residential Outdoor: 6,301; Striped Parking Area: 1,258 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74

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Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	227.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	18.00	7.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					
Off-Road	3.6800e-003	0.0358	0.0336	6.0000e-005		1.6900e-003	1.6900e-003		1.5800e-003	1.5800e-003	0.0000	5.2716	5.2716	1.3400e-003	0.0000	5.3051
Total	3.6800e-003	0.0358	0.0336	6.0000e-005		1.6900e-003	1.6900e-003		1.5800e-003	1.5800e-003	0.0000	5.2716	5.2716	1.3400e-003	0.0000	5.3051

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3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	0.0154	4.1000e-003	7.0000e-005	1.9400e-003	1.3000e-004	2.0700e-003	5.3000e-004	1.2000e-004	6.5000e-004	0.0000	6.8117	6.8117	3.4000e-004	1.0800e-003	7.1430
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3177	0.3177	1.0000e-005	1.0000e-005	0.3202
Total	3.7000e-004	0.0155	5.1600e-003	7.0000e-005	2.3500e-003	1.3000e-004	2.4800e-003	6.4000e-004	1.2000e-004	7.6000e-004	0.0000	7.1293	7.1293	3.5000e-004	1.0900e-003	7.4632

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	3.6800e-003	0.0358	0.0336	6.0000e-005		1.6900e-003	1.6900e-003		1.5800e-003	1.5800e-003	0.0000	5.2716	5.2716	1.3400e-003	0.0000	5.3051
Total	3.6800e-003	0.0358	0.0336	6.0000e-005		1.6900e-003	1.6900e-003		1.5800e-003	1.5800e-003	0.0000	5.2716	5.2716	1.3400e-003	0.0000	5.3051

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3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	0.0154	4.1000e-003	7.0000e-005	1.9400e-003	1.3000e-004	2.0700e-003	5.3000e-004	1.2000e-004	6.5000e-004	0.0000	6.8117	6.8117	3.4000e-004	1.0800e-003	7.1430
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3177	0.3177	1.0000e-005	1.0000e-005	0.3202
Total	3.7000e-004	0.0155	5.1600e-003	7.0000e-005	2.3500e-003	1.3000e-004	2.4800e-003	6.4000e-004	1.2000e-004	7.6000e-004	0.0000	7.1293	7.1293	3.5000e-004	1.0900e-003	7.4632

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					6.2700e-003	0.0000	6.2700e-003	3.0000e-003	0.0000	3.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1300e-003	0.0124	6.6400e-003	2.0000e-005		5.1000e-004	5.1000e-004		4.7000e-004	4.7000e-004	0.0000	1.5114	1.5114	4.9000e-004	0.0000	1.5236
Total	1.1300e-003	0.0124	6.6400e-003	2.0000e-005	6.2700e-003	5.1000e-004	6.7800e-003	3.0000e-003	4.7000e-004	3.4700e-003	0.0000	1.5114	1.5114	4.9000e-004	0.0000	1.5236

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3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0782	0.0782	0.0000	0.0000	0.0788
Total	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0782	0.0782	0.0000	0.0000	0.0788

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					6.2700e-003	0.0000	6.2700e-003	3.0000e-003	0.0000	3.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1300e-003	0.0124	6.6400e-003	2.0000e-005		5.1000e-004	5.1000e-004		4.7000e-004	4.7000e-004	0.0000	1.5114	1.5114	4.9000e-004	0.0000	1.5236
Total	1.1300e-003	0.0124	6.6400e-003	2.0000e-005	6.2700e-003	5.1000e-004	6.7800e-003	3.0000e-003	4.7000e-004	3.4700e-003	0.0000	1.5114	1.5114	4.9000e-004	0.0000	1.5236

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3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0782	0.0782	0.0000	0.0000	0.0788
Total	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0782	0.0782	0.0000	0.0000	0.0788

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					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6700e-003	0.0289	0.0174	4.0000e-005		1.2100e-003	1.2100e-003		1.1100e-003	1.1100e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	2.6700e-003	0.0289	0.0174	4.0000e-005	0.0142	1.2100e-003	0.0154	6.8500e-003	1.1100e-003	7.9600e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501

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3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1955	0.1955	0.0000	0.0000	0.1971
Total	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1955	0.1955	0.0000	0.0000	0.1971

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					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6700e-003	0.0289	0.0174	4.0000e-005		1.2100e-003	1.2100e-003		1.1100e-003	1.1100e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	2.6700e-003	0.0289	0.0174	4.0000e-005	0.0142	1.2100e-003	0.0154	6.8500e-003	1.1100e-003	7.9600e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501

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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 Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1955	0.1955	0.0000	0.0000	0.1971
Total	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1955	0.1955	0.0000	0.0000	0.1971

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0602	0.4626	0.4981	8.7000e-004		0.0203	0.0203		0.0196	0.0196	0.0000	71.7317	71.7317	0.0122	0.0000	72.0362
Total	0.0602	0.4626	0.4981	8.7000e-004		0.0203	0.0203		0.0196	0.0196	0.0000	71.7317	71.7317	0.0122	0.0000	72.0362

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3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	0.0114	4.1600e-003	5.0000e-005	1.6600e-003	7.0000e-005	1.7300e-003	4.8000e-004	6.0000e-005	5.4000e-004	0.0000	5.0548	5.0548	1.5000e-004	7.3000e-004	5.2771
Worker	2.5300e-003	1.8700e-003	0.0232	8.0000e-005	8.8700e-003	5.0000e-005	8.9100e-003	2.3600e-003	4.0000e-005	2.4000e-003	0.0000	6.9493	6.9493	1.6000e-004	1.7000e-004	7.0052
Total	2.8400e-003	0.0133	0.0273	1.3000e-004	0.0105	1.2000e-004	0.0106	2.8400e-003	1.0000e-004	2.9400e-003	0.0000	12.0041	12.0041	3.1000e-004	9.0000e-004	12.2823

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	0.0602	0.4626	0.4981	8.7000e-004		0.0203	0.0203		0.0196	0.0196	0.0000	71.7316	71.7316	0.0122	0.0000	72.0361
Total	0.0602	0.4626	0.4981	8.7000e-004		0.0203	0.0203		0.0196	0.0196	0.0000	71.7316	71.7316	0.0122	0.0000	72.0361

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3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	0.0114	4.1600e-003	5.0000e-005	1.6600e-003	7.0000e-005	1.7300e-003	4.8000e-004	6.0000e-005	5.4000e-004	0.0000	5.0548	5.0548	1.5000e-004	7.3000e-004	5.2771
Worker	2.5300e-003	1.8700e-003	0.0232	8.0000e-005	8.8700e-003	5.0000e-005	8.9100e-003	2.3600e-003	4.0000e-005	2.4000e-003	0.0000	6.9493	6.9493	1.6000e-004	1.7000e-004	7.0052
Total	2.8400e-003	0.0133	0.0273	1.3000e-004	0.0105	1.2000e-004	0.0106	2.8400e-003	1.0000e-004	2.9400e-003	0.0000	12.0041	12.0041	3.1000e-004	9.0000e-004	12.2823

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2200e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329
Paving	6.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8500e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329

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3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.7000e-004	2.1200e-003	1.0000e-005	8.1000e-004	0.0000	8.1000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6353	0.6353	1.0000e-005	2.0000e-005	0.6404
Total	2.3000e-004	1.7000e-004	2.1200e-003	1.0000e-005	8.1000e-004	0.0000	8.1000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6353	0.6353	1.0000e-005	2.0000e-005	0.6404

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	3.2200e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329
Paving	6.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8500e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329

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3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.7000e-004	2.1200e-003	1.0000e-005	8.1000e-004	0.0000	8.1000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6353	0.6353	1.0000e-005	2.0000e-005	0.6404
Total	2.3000e-004	1.7000e-004	2.1200e-003	1.0000e-005	8.1000e-004	0.0000	8.1000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6353	0.6353	1.0000e-005	2.0000e-005	0.6404

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	0.4358	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785

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3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1955	0.1955	0.0000	0.0000	0.1971
Total	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1955	0.1955	0.0000	0.0000	0.1971

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	0.4349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	0.4358	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1955	0.1955	0.0000	0.0000	0.1971
Total	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1955	0.1955	0.0000	0.0000	0.1971

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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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	0.0564	0.0702	0.5710	1.2400e-003	0.1291	9.6000e-004	0.1301	0.0345	9.0000e-004	0.0354	0.0000	114.8178	114.8178	7.7100e-003	5.0200e-003	116.5060
Unmitigated	0.0564	0.0702	0.5710	1.2400e-003	0.1291	9.6000e-004	0.1301	0.0345	9.0000e-004	0.0354	0.0000	114.8178	114.8178	7.7100e-003	5.0200e-003	116.5060

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.44	9.54	8.55	34,517	34,517
Single Family Housing	9.44	9.54	8.55	34,517	34,517
Single Family Housing	9.44	9.54	8.55	34,517	34,517
Single Family Housing	9.44	9.54	8.55	34,517	34,517
Single Family Housing	9.44	9.54	8.55	34,517	34,517
Single Family Housing	9.44	9.54	8.55	34,517	34,517
Single Family Housing	9.44	9.54	8.55	34,517	34,517
Single Family Housing	9.44	9.54	8.55	34,517	34,517
Single Family Housing	9.44	9.54	8.55	34,517	34,517
Single Family Housing	9.44	9.54	8.55	34,517	34,517
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
Total	94.40	95.40	85.50	345,166	345,166

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
Other Asphalt Surfaces	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
User Defined Recreational	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	19.1887	19.1887	1.1700e-003	1.4000e-004	19.2604
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	19.1887	19.1887	1.1700e-003	1.4000e-004	19.2604
NaturalGas Mitigated	1.1600e-003	9.9400e-003	4.2300e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.5167	11.5167	2.2000e-004	2.1000e-004	11.5851
NaturalGas Unmitigated	1.1600e-003	9.9400e-003	4.2300e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.5167	11.5167	2.2000e-004	2.1000e-004	11.5851

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					
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
Single Family Housing	21581.5	1.1600e-003	9.9400e-003	4.2300e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.5167	11.5167	2.2000e-004	2.1000e-004	11.5851
User Defined Recreational	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
Total		1.1600e-003	9.9400e-003	4.2300e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.5167	11.5167	2.2000e-004	2.1000e-004	11.5851

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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					
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
Single Family Housing	21581.5	1.1600e-003	9.9400e-003	4.2300e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.5167	11.5167	2.2000e-004	2.1000e-004	11.5851
User Defined Recreational	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
Total		1.1600e-003	9.9400e-003	4.2300e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.5167	11.5167	2.2000e-004	2.1000e-004	11.5851

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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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7834.33	19.1887	1.1700e-003	1.4000e-004	19.2604
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		19.1887	1.1700e-003	1.4000e-004	19.2604

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7834.33	19.1887	1.1700e-003	1.4000e-004	19.2604
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		19.1887	1.1700e-003	1.4000e-004	19.2604

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	6.4520	0.1245	7.9356	0.0140		1.0868	1.0868		1.0868	1.0868	103.2958	43.6676	146.9633	0.0960	8.1200e-003	151.7854
Unmitigated	6.4520	0.1245	7.9356	0.0140		1.0868	1.0868		1.0868	1.0868	103.2958	43.6676	146.9633	0.0960	8.1200e-003	151.7854

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0435					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.2746	0.1225	7.7453	0.0140		1.0860	1.0860		1.0860	1.0860	103.2958	43.3207	146.6165	0.0953	8.1200e-003	151.4209
Landscaping	0.0130	1.9100e-003	0.1902	1.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	0.3468	0.3468	7.1000e-004	0.0000	0.3645
Total	6.4520	0.1245	7.9356	0.0140		1.0868	1.0868		1.0868	1.0868	103.2958	43.6676	146.9633	0.0960	8.1200e-003	151.7854

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0435					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.2746	0.1225	7.7453	0.0140		1.0860	1.0860		1.0860	1.0860	103.2958	43.3207	146.6165	0.0953	8.1200e-003	151.4209
Landscaping	0.0130	1.9100e-003	0.1902	1.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	0.3468	0.3468	7.1000e-004	0.0000	0.3645
Total	6.4520	0.1245	7.9356	0.0140		1.0868	1.0868		1.0868	1.0868	103.2958	43.6676	146.9633	0.0960	8.1200e-003	151.7854

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.4024	0.0214	5.2000e-004	4.0944
Unmitigated	3.4024	0.0214	5.2000e-004	4.0944

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	0.65154 / 0.410754	3.4024	0.0214	5.2000e-004	4.0944
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		3.4024	0.0214	5.2000e-004	4.0944

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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	0.65154 / 0.410754	3.4024	0.0214	5.2000e-004	4.0944
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		3.4024	0.0214	5.2000e-004	4.0944

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.4968	0.1476	0.0000	6.1857
Unmitigated	2.4968	0.1476	0.0000	6.1857

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	12.3	2.4968	0.1476	0.0000	6.1857
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		2.4968	0.1476	0.0000	6.1857

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	12.3	2.4968	0.1476	0.0000	6.1857
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		2.4968	0.1476	0.0000	6.1857

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

11.0 Vegetation
