

Junipero Serra Trail Project

Appendix A: Appendix A: CalEEMod Results

Junipero Serra Trail Project

Appendix A

CalEEMod Construction Input Assumptions and Derivations: JST East

Prepared by MIG, Inc.

Table 1: Project Characteristics and Land Use Information

Construction Days	100
Length (mi)	0.7
Length (feet)	3696
Area of Disturbance (KSF)	44.4
Area of Disturbance (Acres)	1.02

Note: Area calculated based on a 12-foot-wide path

Table 2: Construction Phasing and Worker Information Provided by BKF

<u>Phase</u>	<u>Weeks</u>	<u>Construction Workers</u>	<u>Worker Trips / Week</u>
Site Prep	2	4	48
Excavation	2	4	48
Grading	4	6	144
Trail Const	8	8	384
Trailhead Imp	6	4	144
Signing and Striping	2	3	36
Landscaping	3	3	54
Total	27		858
Avg Workers / Day			11

Notes: 1) Assumes 6 day work week.

2) Total average workers per day accounts for two (2) F-250 trucks used on site.

3) Total average workers divided by 100 total work days to derive average rate.

Table 3: Construction Equipment Information and Runtime

<u>Equipment</u>	<u>Numer of Pieces</u>	<u>Days in Use</u>	<u>Daily Runtime (hrs)</u>	<u>Total Runtime (hrs)</u>
Loader	1	75	8	600
Paver	1	15	8	120
Roller	1	15	8	120
End Dump Trucks	1	25	8	200
Dozer	1	15	8	120
Backhoe	1	20	8	160
Striping Machine	1	10	8	80
Power Auger	1	5	8	40
Generator	2	75	8	600

Table 4: Macro Construction Phasing for CalEEMod Input

<u>Phase</u>	<u>Weeks</u>	<u>Days Per Week</u>	<u>Total Days</u>
Grading	15	5	75
Paving	3	5	15
Architectural Coating	2	5	10

Note: Grading phase includes all non-paving phases.

Table 5: Grading Phase Equipment Assignment for CalEEMod Input

<u>Equipment</u>	<u>Number of Pieces</u>	<u>Daily Runtime</u>
Loader	1	8
End Dump Trucks	1	2.7
Dozer	1	1.6
Backhoe	1	2.2
Generator	1	8.0

Table 6: Paving Phase Equipment Assignment for CalEEMod Input

<u>Equipment</u>	<u>Number of Pieces</u>	<u>Daily Runtime</u>
Paver	1	8
Roller	1	8
Power Auger	1	2.7

Table 7: Architectural Coating Phase Equipment Assignment for CalEEMod Input

<u>Equipment</u>	<u>Number of Pieces</u>	<u>Daily Runtime</u>
Striping Machine	1	8

Table 8: Vendor Trip Details by Construction Phase

<u>Phase</u>	<u>Vendor Trips</u>
Grading	6
Paving	7
Architectural Coating	2

- Notes: 1) Grading Phase: One (1) trip per day for water, 4 for aggregate, 1 for other materials (e.g., pipes)
 2) Paving Phase: Five (5) trips per day for concrete, 2 additional trips for materials delivery (e.g., benches)
 3) Architectural Coating Phase: Assumes two (2) trips per day for materials delivery (e.g., benches).

Table 9: Vendor Materials Estimates

Asphalt Required (CY)	548
Aggregate Required (CY)	2464

Note: 2" Hot Mix over 6" Class II Aggregate Base for entire length of trail segment

Table 10: Vendor Trips and Phase Assignment Based on Materials Estimates

<u>Material</u>	<u>Deliveries (9 CY Trucks)</u>	<u>Phase</u>	<u>Trips Per Day</u>
Concrete	61	Paving	5
Aggregate	274	Grading	4

Table 11: Hauling Details

<u>Cut/ Fill</u>	<u>Cubic Yards</u>	<u>Haul trips (9 CY trucks)</u>
Soil Cut	4928	548
Soil Fill	0	0

Note: Assumes 1 foot of excavation across area of disturbance

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Appendix A

CalEEMod Construction Input Assumptions and Derivations: JST Central

Prepared by MIG, Inc.

Table 1: Project Characteristics and Land Use Information

Construction Days	150
Length (mi)	1.2
Length (feet)	6336
Area of Disturbance (KSF)	76.0
Area of Disturbance (Acres)	1.75

Note: Area calculated based on a 12-foot-wide path

Table 2: Construction Phasing and Worker Information Provided by BKF

<u>Phase</u>	<u>Weeks</u>	<u>Construction Workers</u>	<u>Workers / Week</u>
Site Prep	2	6	72
Excavation	2	6	72
Grading	6	8	288
Trail Const	12	10	720
Struct Culv	8	6	288
Trailhead Imp	8	6	288
Signing and Striping	2	4	48
Landscaping	4	4	96
Total	44		1872
Avg Workers / Day			17

Notes: 1) Assumes 6 day work week.

2) Total average workers per day accounts for four (4) F-250 trucks used on site.

3) Total average workers divided by 150 total work days to derive average rate.

Table 3: Construction Equipment Information and Runtime

<u>Equipment</u>	<u>Numer of Pieces</u>	<u>Days in Use</u>	<u>Daily Runtime (hrs)</u>	<u>Total Runtime (hrs)</u>
Loader	1	100	8	800
Paver	1	20	8	160
Roller	1	20	8	160
End Dump Trucks	1	40	8	320
Dozer	1	20	8	160
Backhoe	1	30	8	240
Striping Machine	1	10	8	80
Power Auger	1	5	8	40
Generator	2	120	8	960
Concrete Mixer	1	2	8	16
Concrete Pump	1	2	8	16
Concrete Vibrator	1	2	8	16

Table 4: Macro Construction Phasing for CalEEMod Input

<u>Phase</u>	<u>Weeks</u>	<u>Days Per Week</u>	<u>Total Days</u>
Grading	24	5	120
Paving	4	5	20
Architectural Coating	2	5	10

Note: Grading phase includes all non-paving phases.

Table 5: Grading Phase Equipment Assignment for CalEEMod Input

<u>Equipment</u>	<u>Number of Pieces</u>	<u>Daily Runtime</u>
Loader	1	6.7
End Dump Trucks	1	2.7
Dozer	1	1.4
Backhoe	1	2.0
Generator	1	8.0

Table 6: Paving Phase Equipment Assignment for CalEEMod Input

<u>Equipment</u>	<u>Number of Pieces</u>	<u>Daily Runtime</u>
Paver	1	8
Roller	1	8
Power Auger	1	2
Concrete Mixer	1	0.8
Concrete Pump	1	0.8
Concrete Vibrator	1	0.8

Table 7: Architectural Coating Phase Equipment Assignment for CalEEMod Input

<u>Equipment</u>	<u>Number of Pieces</u>	<u>Daily Runtime</u>
Striping Machine	1	8

Table 8: Vendor Trip Details by Construction Phase

<u>Phase</u>	<u>Vendor Trips</u>
Grading	7
Paving	8
Architectural Coating	2

Notes: 1) Grading Phase: One (1) trip per day for water, 4 for aggregate, 2 for other materials (e.g., pipes, culvert)

2) Paving Phase: Six (6) trips per day for concrete, 2 additional trips for materials delivery (e.g., benches)

3) Architectural Coating Phase: Assumes two (2) trips per day for materials delivery (e.g., benches).

Table 9: Vendor Materials Estimates

Asphalt Required (CY)	939
Aggregate Required (CY)	4224

Note: 2" Hot Mix over 6" Class II Aggregate Base for entire length of trail segment

Table 10: Vendor Trips and Phase Assignment Based on Materials Estimates

<u>Material</u>	<u>Deliveries (9 CY Trucks)</u>	<u>Phase</u>	<u>Trips Per Day</u>
Concrete	104	Paving	6
Aggregate	469	Grading	4

Table 11: Hauling Details

<u>Cut/ Fill</u>	<u>Cubic Yards</u>	<u>Haul trips (9 CY trucks)</u>
Cut CY	8448	939
Fill	0	0

Note: Assumes 1 foot of excavation across area of disturbance

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

**Junipero Serra Trail East
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	44.40	1000sqft	1.02	44,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2024
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MW hr)	2	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - MIG Modeler: Phil Gleason.

Land Use - Other asphalt surface selected to reflect paved trail (0.7 mile trail at 12 foot width).

Construction Phase - Construction phasing updated to reflect project conditions; grading phase includes site prep, excavation, grading, trail const, trailhead imp, and landscaping. Signing and striping reflected paving and arch coating.

Off-road Equipment - Grading Equipment - updated to reflect the equipment that would be used for construction. Average daily runtime reflects macro-construction phase.

Off-road Equipment -

Off-road Equipment - Paving Equipment - updated to reflect the equipment that would be used for construction. Average daily runtime reflects macro-construction phase. TLB used for power auger.

Off-road Equipment - Arch Coating Equipment - updated to reflect the equipment that would be used for construction. Average daily runtime reflects macro-construction phase. Air compressor used for striping machine.

Grading - Hauling: Updated to reflect the site would have 1 foot of excavation across the entire length and width of the project site.

Trips and VMT - Trips and VMT: Average of 11 construction workers per day across 100 day (includes F-250s); vendors updated to reflect use of water trucks, material delivery, and aggregate and asphalt deliveries (9 CY truck); hauling with 9 CY truck.

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Construction Off-road Equipment Mitigation - Construction Mit: Watering two times per day, consistent with standard design and construction measures.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	4.00	75.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	0.00
tblConstructionPhase	PhaseEndDate	12/12/2022	6/10/2022
tblConstructionPhase	PhaseEndDate	11/14/2022	2/7/2022
tblConstructionPhase	PhaseEndDate	1/28/2022	1/2/2022
tblConstructionPhase	PhaseEndDate	2/7/2022	4/15/2022
tblConstructionPhase	PhaseEndDate	11/28/2022	5/6/2022
tblConstructionPhase	PhaseEndDate	2/1/2022	1/28/2022
tblConstructionPhase	PhaseStartDate	11/29/2022	5/29/2022
tblConstructionPhase	PhaseStartDate	2/2/2022	1/3/2022
tblConstructionPhase	PhaseStartDate	11/15/2022	4/16/2022
tblGrading	MaterialExported	0.00	4,928.00
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	1.60
tblOffRoadEquipment	UsageHours	7.00	8.00

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tblOffRoadEquipment	UsageHours	8.00	2.70
tblOffRoadEquipment	UsageHours	7.00	2.20
tblTripsAndVMT	HaulingTripNumber	616.00	1,096.00
tblTripsAndVMT	HaulingVehicleClass	HHDT	MHDT
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	7.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	11.00
tblTripsAndVMT	WorkerTripNumber	8.00	11.00
tblTripsAndVMT	WorkerTripNumber	4.00	11.00

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-3-2022	4-2-2022	0.3527	0.3527
2	4-3-2022	7-2-2022	0.1107	0.1107
		Highest	0.3527	0.3527

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	3.8300e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8300e-003	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004

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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	3.8300e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8300e-003	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004

	ROG	NOx	CO	SO2	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	1/3/2022	1/2/2022	5	0	
2	Site Preparation	Site Preparation	1/29/2022	1/28/2022	5	0	
3	Grading	Grading	1/3/2022	4/15/2022	5	75	

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4	Building Construction	Building Construction	2/8/2022	2/7/2022	5	0
5	Paving	Paving	4/16/2022	5/6/2022	5	15
6	Architectural Coating	Architectural Coating	5/29/2022	6/10/2022	5	10

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 7.5

Acres of Paving: 1.02

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,664 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	0	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
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Off-Highway Trucks	1	2.70	402	0.38
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	1.60	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	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	1	8.00	97	0.37

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Paving	Tractors/Loaders/Backhoes	1	2.70	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Grading	Tractors/Loaders/Backhoes	1	2.20	97	0.37
Grading	Generator Sets	1	8.00	84	0.74

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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	11.00	6.00	1,096.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	MHDT
Building Construction	7	19.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	11.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0494	0.0000	0.0494	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3067	0.3142	6.3000e-004		0.0148	0.0148		0.0141	0.0141	0.0000	54.5733	54.5733	0.0118	0.0000	54.8683
Total	0.0332	0.3067	0.3142	6.3000e-004	0.0494	0.0148	0.0642	0.0253	0.0141	0.0394	0.0000	54.5733	54.5733	0.0118	0.0000	54.8683

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	2.9100e-003	0.0524	0.0136	2.6000e-004	0.0104	9.0000e-004	0.0113	3.1400e-003	8.6000e-004	3.9900e-003	0.0000	25.0154	25.0154	1.4000e-004	3.2800e-003	25.9971
Vendor	5.0000e-004	0.0127	3.7100e-003	5.0000e-005	1.4800e-003	1.3000e-004	1.6100e-003	4.3000e-004	1.3000e-004	5.6000e-004	0.0000	4.6668	4.6668	1.1000e-004	6.9000e-004	4.8746
Worker	1.1000e-003	8.1000e-004	9.9400e-003	3.0000e-005	3.2700e-003	2.0000e-005	3.2900e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.5703	2.5703	8.0000e-005	7.0000e-005	2.5946
Total	4.5100e-003	0.0659	0.0273	3.4000e-004	0.0152	1.0500e-003	0.0162	4.4400e-003	1.0100e-003	5.4400e-003	0.0000	32.2525	32.2525	3.3000e-004	4.0400e-003	33.4664

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

3.4 Grading - 2022

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					0.0222	0.0000	0.0222	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3067	0.3142	6.3000e-004		0.0148	0.0148		0.0141	0.0141	0.0000	54.5732	54.5732	0.0118	0.0000	54.8682
Total	0.0332	0.3067	0.3142	6.3000e-004	0.0222	0.0148	0.0370	0.0114	0.0141	0.0254	0.0000	54.5732	54.5732	0.0118	0.0000	54.8682

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	2.9100e-003	0.0524	0.0136	2.6000e-004	0.0104	9.0000e-004	0.0113	3.1400e-003	8.6000e-004	3.9900e-003	0.0000	25.0154	25.0154	1.4000e-004	3.2800e-003	25.9971
Vendor	5.0000e-004	0.0127	3.7100e-003	5.0000e-005	1.4800e-003	1.3000e-004	1.6100e-003	4.3000e-004	1.3000e-004	5.6000e-004	0.0000	4.6668	4.6668	1.1000e-004	6.9000e-004	4.8746
Worker	1.1000e-003	8.1000e-004	9.9400e-003	3.0000e-005	3.2700e-003	2.0000e-005	3.2900e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.5703	2.5703	8.0000e-005	7.0000e-005	2.5946
Total	4.5100e-003	0.0659	0.0273	3.4000e-004	0.0152	1.0500e-003	0.0162	4.4400e-003	1.0100e-003	5.4400e-003	0.0000	32.2525	32.2525	3.3000e-004	4.0400e-003	33.4664

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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 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2200e-003	0.0329	0.0413	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.5182	5.5182	1.7800e-003	0.0000	5.5628
Paving	1.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.5600e-003	0.0329	0.0413	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.5182	5.5182	1.7800e-003	0.0000	5.5628

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	2.9600e-003	8.7000e-004	1.0000e-005	3.5000e-004	3.0000e-005	3.8000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.0889	1.0889	2.0000e-005	1.6000e-004	1.1374
Worker	2.2000e-004	1.6000e-004	1.9900e-003	1.0000e-005	6.5000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5141	0.5141	2.0000e-005	1.0000e-005	0.5189
Total	3.4000e-004	3.1200e-003	2.8600e-003	2.0000e-005	1.0000e-003	3.0000e-005	1.0400e-003	2.7000e-004	3.0000e-005	3.1000e-004	0.0000	1.6030	1.6030	4.0000e-005	1.7000e-004	1.6563

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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 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2200e-003	0.0329	0.0413	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.5182	5.5182	1.7800e-003	0.0000	5.5628
Paving	1.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.5600e-003	0.0329	0.0413	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.5182	5.5182	1.7800e-003	0.0000	5.5628

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	2.9600e-003	8.7000e-004	1.0000e-005	3.5000e-004	3.0000e-005	3.8000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.0889	1.0889	2.0000e-005	1.6000e-004	1.1374
Worker	2.2000e-004	1.6000e-004	1.9900e-003	1.0000e-005	6.5000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5141	0.5141	2.0000e-005	1.0000e-005	0.5189
Total	3.4000e-004	3.1200e-003	2.8600e-003	2.0000e-005	1.0000e-003	3.0000e-005	1.0400e-003	2.7000e-004	3.0000e-005	3.1000e-004	0.0000	1.6030	1.6030	4.0000e-005	1.7000e-004	1.6563

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3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	9.2600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3600e-003	9.3900e-003	0.0121	2.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	1.7022	1.7022	1.1000e-004	0.0000	1.7049
Total	0.0106	9.3900e-003	0.0121	2.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	1.7022	1.7022	1.1000e-004	0.0000	1.7049

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.6000e-004	1.6000e-004	0.0000	7.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.2074	0.2074	0.0000	3.0000e-005	0.2167
Worker	1.5000e-004	1.1000e-004	1.3300e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3427	0.3427	1.0000e-005	1.0000e-005	0.3459
Total	1.7000e-004	6.7000e-004	1.4900e-003	0.0000	5.1000e-004	1.0000e-005	5.1000e-004	1.4000e-004	1.0000e-005	1.4000e-004	0.0000	0.5501	0.5501	1.0000e-005	4.0000e-005	0.5626

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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 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	9.2600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3600e-003	9.3900e-003	0.0121	2.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	1.7022	1.7022	1.1000e-004	0.0000	1.7049
Total	0.0106	9.3900e-003	0.0121	2.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	1.7022	1.7022	1.1000e-004	0.0000	1.7049

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.6000e-004	1.6000e-004	0.0000	7.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.2074	0.2074	0.0000	3.0000e-005	0.2167
Worker	1.5000e-004	1.1000e-004	1.3300e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3427	0.3427	1.0000e-005	1.0000e-005	0.3459
Total	1.7000e-004	6.7000e-004	1.4900e-003	0.0000	5.1000e-004	1.0000e-005	5.1000e-004	1.4000e-004	1.0000e-005	1.4000e-004	0.0000	0.5501	0.5501	1.0000e-005	4.0000e-005	0.5626

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	9.50	7.30	7.30	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
Other Asphalt Surfaces	0.572464	0.055653	0.187060	0.115672	0.020329	0.005102	0.007934	0.006404	0.000900	0.000380	0.024412	0.000914	0.002776

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8300e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004
Unmitigated	3.8300e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004
Total	3.8400e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004

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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	9.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004
Total	3.8400e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004

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	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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
Total		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

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
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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

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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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

**Junipero Serra Trail Central
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	76.00	1000sqft	1.74	76,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2024
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MW hr)	2	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - MIG Modeler: Phil Gleason.

Land Use - Other asphalt surface selected to reflect paved trail (1.2 mile trail at 12 foot width).

Construction Phase - Construction phasing updated to reflect project conditions; grading phase includes site prep, excavation, grading, trail const, trailhead imp, struct culv, and landscaping. Signing and striping reflected paving and arch coating.

Off-road Equipment - Arch Coating Equipment - updated to reflect the equipment that would be used for construction. Average daily runtime reflects macro-construction phase. Air compressor used for striping machine.

Off-road Equipment -

Off-road Equipment - Grading Equipment - updated to reflect the equipment that would be used for construction. Average daily runtime reflects macro-construction phase.

Off-road Equipment - Paving Equipment - updated to reflect the equipment that would be used for construction. Average daily runtime reflects macro-construction phase. TLB used for power auger. Paving equipment = concrete pump and vibrator.

Trips and VMT - Trips and VMT: Average of 17 construction workers per day across 150 day (includes F-250s); vendors updated to reflect use of water trucks, material delivery, and aggregate and asphalt deliveries (9 CY truck); hauling with 9 CY truck.

Grading - Hauling: Updated to reflect the site would have 1 foot of excavation across the entire length and width of the project site.

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Construction Off-road Equipment Mitigation - Construction Mit: Watering two times per day, consistent with standard design and construction measures.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	4.00	120.00
tblConstructionPhase	NumDays	2.00	0.00
tblConstructionPhase	NumDays	200.00	0.00
tblConstructionPhase	NumDays	10.00	20.00
tblGrading	MaterialExported	0.00	8,488.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.80
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.80
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	1.40
tblOffRoadEquipment	UsageHours	7.00	6.70
tblOffRoadEquipment	UsageHours	7.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblTripsAndVMT	HaulingTripNumber	1,061.00	1,878.00
tblTripsAndVMT	HaulingVehicleClass	HHDT	MHDT
tblTripsAndVMT	VendorTripNumber	0.00	7.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	17.00
tblTripsAndVMT	WorkerTripNumber	15.00	17.00
tblTripsAndVMT	WorkerTripNumber	6.00	17.00

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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	1-1-2024	3-31-2024	0.2842	0.2842
2	4-1-2024	6-30-2024	0.2606	0.2606
3	7-1-2024	9-30-2024	0.0474	0.0474
		Highest	0.2842	0.2842

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	6.5600e-003	1.0000e-005	7.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3600e-003	1.3600e-003	0.0000	0.0000	1.4500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.5600e-003	1.0000e-005	7.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.3600e-003	1.3600e-003	0.0000	0.0000	1.4500e-003

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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	6.5600e-003	1.0000e-005	7.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3600e-003	1.3600e-003	0.0000	0.0000	1.4500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.5600e-003	1.0000e-005	7.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.3600e-003	1.3600e-003	0.0000	0.0000	1.4500e-003

	ROG	NOx	CO	SO2	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	1/1/2024	12/31/2023	5	20	
2	Grading	Grading	1/1/2024	6/14/2024	5	120	
3	Site Preparation	Site Preparation	1/27/2024	1/26/2024	5	0	

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4	Building Construction	Building Construction	2/6/2024	2/5/2024	5	0
5	Paving	Paving	6/15/2024	7/12/2024	5	20
6	Architectural Coating	Architectural Coating	7/13/2024	7/26/2024	5	10

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10.5

Acres of Paving: 1.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 4,560 (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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Generator Sets	1	8.00	84	0.74
Grading	Off-Highway Trucks	1	2.70	402	0.38
Grading	Rubber Tired Dozers	1	1.40	247	0.40
Grading	Tractors/Loaders/Backhoes	1	6.70	97	0.37
Grading	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	0.80	9	0.56

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Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	0.80	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	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	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	17.00	7.00	1,878.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	MHDT
Building Construction	7	32.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	17.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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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 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					0.0693	0.0000	0.0693	0.0354	0.0000	0.0354	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0439	0.3894	0.4644	9.6000e-004		0.0168	0.0168		0.0160	0.0160	0.0000	83.1732	83.1732	0.0173	0.0000	83.6058
Total	0.0439	0.3894	0.4644	9.6000e-004	0.0693	0.0168	0.0861	0.0354	0.0160	0.0514	0.0000	83.1732	83.1732	0.0173	0.0000	83.6058

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	1.6700e-003	0.0646	0.0127	4.3000e-004	0.0178	2.9000e-004	0.0181	5.3800e-003	2.8000e-004	5.6600e-003	0.0000	40.9489	40.9489	9.0000e-005	5.2900e-003	42.5272
Vendor	4.5000e-004	0.0187	5.7800e-003	8.0000e-005	2.7600e-003	1.1000e-004	2.8800e-003	8.0000e-004	1.1000e-004	9.1000e-004	0.0000	8.2281	8.2281	1.7000e-004	1.2100e-003	8.5920
Worker	2.3900e-003	1.5900e-003	0.0213	7.0000e-005	8.0900e-003	4.0000e-005	8.1300e-003	2.1500e-003	4.0000e-005	2.1900e-003	0.0000	5.9618	5.9618	1.6000e-004	1.6000e-004	6.0135
Total	4.5100e-003	0.0849	0.0397	5.8000e-004	0.0287	4.4000e-004	0.0292	8.3300e-003	4.3000e-004	8.7600e-003	0.0000	55.1388	55.1388	4.2000e-004	6.6600e-003	57.1327

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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 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					0.0312	0.0000	0.0312	0.0159	0.0000	0.0159	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0439	0.3894	0.4644	9.6000e-004		0.0168	0.0168		0.0160	0.0160	0.0000	83.1731	83.1731	0.0173	0.0000	83.6057
Total	0.0439	0.3894	0.4644	9.6000e-004	0.0312	0.0168	0.0480	0.0159	0.0160	0.0319	0.0000	83.1731	83.1731	0.0173	0.0000	83.6057

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	1.6700e-003	0.0646	0.0127	4.3000e-004	0.0178	2.9000e-004	0.0181	5.3800e-003	2.8000e-004	5.6600e-003	0.0000	40.9489	40.9489	9.0000e-005	5.2900e-003	42.5272
Vendor	4.5000e-004	0.0187	5.7800e-003	8.0000e-005	2.7600e-003	1.1000e-004	2.8800e-003	8.0000e-004	1.1000e-004	9.1000e-004	0.0000	8.2281	8.2281	1.7000e-004	1.2100e-003	8.5920
Worker	2.3900e-003	1.5900e-003	0.0213	7.0000e-005	8.0900e-003	4.0000e-005	8.1300e-003	2.1500e-003	4.0000e-005	2.1900e-003	0.0000	5.9618	5.9618	1.6000e-004	1.6000e-004	6.0135
Total	4.5100e-003	0.0849	0.0397	5.8000e-004	0.0287	4.4000e-004	0.0292	8.3300e-003	4.3000e-004	8.7600e-003	0.0000	55.1388	55.1388	4.2000e-004	6.6600e-003	57.1327

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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 - 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	4.0400e-003	0.0396	0.0585	9.0000e-005		1.9500e-003	1.9500e-003		1.7900e-003	1.7900e-003	0.0000	7.8807	7.8807	2.5400e-003	0.0000	7.9441
Paving	2.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.3200e-003	0.0396	0.0585	9.0000e-005		1.9500e-003	1.9500e-003		1.7900e-003	1.7900e-003	0.0000	7.8807	7.8807	2.5400e-003	0.0000	7.9441

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	9.0000e-005	3.5600e-003	1.1000e-003	2.0000e-005	5.3000e-004	2.0000e-005	5.5000e-004	1.5000e-004	2.0000e-005	1.7000e-004	0.0000	1.5673	1.5673	3.0000e-005	2.3000e-004	1.6366
Worker	4.0000e-004	2.6000e-004	3.5400e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9936	0.9936	3.0000e-005	3.0000e-005	1.0023
Total	4.9000e-004	3.8200e-003	4.6400e-003	3.0000e-005	1.8800e-003	3.0000e-005	1.9000e-003	5.1000e-004	3.0000e-005	5.3000e-004	0.0000	2.5609	2.5609	6.0000e-005	2.6000e-004	2.6388

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3.6 Paving - 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	4.0400e-003	0.0396	0.0585	9.0000e-005		1.9500e-003	1.9500e-003		1.7900e-003	1.7900e-003	0.0000	7.8807	7.8807	2.5400e-003	0.0000	7.9441
Paving	2.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.3200e-003	0.0396	0.0585	9.0000e-005		1.9500e-003	1.9500e-003		1.7900e-003	1.7900e-003	0.0000	7.8807	7.8807	2.5400e-003	0.0000	7.9441

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	9.0000e-005	3.5600e-003	1.1000e-003	2.0000e-005	5.3000e-004	2.0000e-005	5.5000e-004	1.5000e-004	2.0000e-005	1.7000e-004	0.0000	1.5673	1.5673	3.0000e-005	2.3000e-004	1.6366
Worker	4.0000e-004	2.6000e-004	3.5400e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9936	0.9936	3.0000e-005	3.0000e-005	1.0023
Total	4.9000e-004	3.8200e-003	4.6400e-003	3.0000e-005	1.8800e-003	3.0000e-005	1.9000e-003	5.1000e-004	3.0000e-005	5.3000e-004	0.0000	2.5609	2.5609	6.0000e-005	2.6000e-004	2.6388

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3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0159					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2100e-003	8.1300e-003	0.0121	2.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.7022	1.7022	1.0000e-004	0.0000	1.7046
Total	0.0171	8.1300e-003	0.0121	2.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.7022	1.7022	1.0000e-004	0.0000	1.7046

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.5000e-004	1.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1959	0.1959	0.0000	3.0000e-005	0.2046
Worker	2.0000e-004	1.3000e-004	1.7700e-003	1.0000e-005	6.7000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4968	0.4968	1.0000e-005	1.0000e-005	0.5011
Total	2.1000e-004	5.8000e-004	1.9100e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6927	0.6927	1.0000e-005	4.0000e-005	0.7057

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3.7 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0159					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2100e-003	8.1300e-003	0.0121	2.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.7022	1.7022	1.0000e-004	0.0000	1.7046
Total	0.0171	8.1300e-003	0.0121	2.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.7022	1.7022	1.0000e-004	0.0000	1.7046

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.5000e-004	1.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1959	0.1959	0.0000	3.0000e-005	0.2046
Worker	2.0000e-004	1.3000e-004	1.7700e-003	1.0000e-005	6.7000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4968	0.4968	1.0000e-005	1.0000e-005	0.5011
Total	2.1000e-004	5.8000e-004	1.9100e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6927	0.6927	1.0000e-005	4.0000e-005	0.7057

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	9.50	7.30	7.30	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
Other Asphalt Surfaces	0.572464	0.055653	0.187060	0.115672	0.020329	0.005102	0.007934	0.006404	0.000900	0.000380	0.024412	0.000914	0.002776

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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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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	6.5600e-003	1.0000e-005	7.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3600e-003	1.3600e-003	0.0000	0.0000	1.4500e-003
Unmitigated	6.5600e-003	1.0000e-005	7.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3600e-003	1.3600e-003	0.0000	0.0000	1.4500e-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	1.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	7.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3600e-003	1.3600e-003	0.0000	0.0000	1.4500e-003
Total	6.5600e-003	1.0000e-005	7.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3600e-003	1.3600e-003	0.0000	0.0000	1.4500e-003

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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	1.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	7.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3600e-003	1.3600e-003	0.0000	0.0000	1.4500e-003
Total	6.5600e-003	1.0000e-005	7.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3600e-003	1.3600e-003	0.0000	0.0000	1.4500e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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

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
Total		0.0000	0.0000	0.0000	0.0000

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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
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

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
