

A P P E N D I X B

AIR QUALITY AND GREENHOUSE
GAS EMISSIONS DATA



Emissions Worksheet

Phase Name	Start Date	End Date	CalEEMod Days	Total Days
Demolition	6/1/2022	7/18/2022	34	47
Demolition Debris Haul	6/1/2022	7/18/2022	34	47
Site Preparation	7/19/2022	7/22/2022	4	3
Grading	7/23/2022	8/2/2022	7	10
Building Construction	8/3/2022	12/1/2023	348	485
Paving	11/8/2023	12/1/2023	18	23
Architectural Coating	11/8/2023	12/1/2023	18	23

Number of Construction Days Per Year			
2022	6/1/2022	12/31/2022	153
2023	1/1/2023	12/1/2023	240
CONSTRUCTION DAYS			393

Total Construction Days Per Year		
1/1/2022	12/31/2022	260
1/1/2023	12/31/2023	260
TOTAL DAYS		520

Criteria Air Pollutant Emissions Summary - Construction Unmitigated

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

Total Construction	Calendar	
Days	2022	2023
393	153	240
	Days	
	549	

Unmitigated Run - with Best Control Measures for Fugitive Dust

average lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total 2022	2	15	14	0.03	0.57	0.66	1	0.19	0.63	1
Total 2023	3	13	15	0.03	0.40	0.55	1	0.11	0.53	1
Average	2	14	14	0.03	0.46	0.59	1	0.14	0.57	1
BAAQMD Threshold	54	54	NA	NA	BMP	82	54	BMP	54	NA
Exceeds Threshold	No	No	NA	NA	NA	No	No	NA	No	NA

Average Daily Emissions and Emission Rates

Onsite Construction PM10 Exhaust Emissions¹

Year	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/hr)	Emission Rate (g/s)
2022	0.65	8.15E-02	1.03E-02
2023	0.54	6.78E-02	8.55E-03

Onsite Construction PM2.5 Exhaust Emissions²

Year	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/hr)	Emission Rate (g/s)
2022	0.62	7.77E-02	9.79E-03
2023	0.52	6.54E-02	8.24E-03

Offsite Construction PM10 Exhaust Emissions¹

Year	Average Daily Emissions (lbs/day)	Hauling Emissions w/in 1,000ft (lbs/day) ³	Emission Rate (lbs/hr)	Emission Rate (g/s)
2022	9.15E-03	1.67E-04	2.09E-05	2.63E-06
2023	5.33E-03	9.73E-05	1.22E-05	1.53E-06

Offsite Construction PM2.5 Exhaust Emissions²

Year	Average Daily Emissions (lbs/day)	Hauling Emissions w/in 1,000ft (lbs/day) ³	Emission Rate (lbs/hr)	Emission Rate (g/s)
2022	8.76E-03	1.60E-04	2.00E-05	2.52E-06
2023	5.08E-03	9.27E-05	1.16E-05	1.46E-06

Note: Emissions evenly distributed over 96 modeled volume sources.

	Year	Workdays	Duration ⁵
Hauling Length (miles)	2022	153	0.59
Haul Length within 1,000 ft of Site (mile) ³	2023	240	0.92
Hours per work day (7:00 AM to 4:00 PM, 1-hour of breaks) ⁴			

¹ DPM emissions taken as PM₁₀ exhaust emissions from CalEEMod average daily emissions.

² PM_{2.5} emissions taken as PM_{2.5} exhaust emissions from CalEEMod average daily emissions.

³ Emissions from CalEEMod offsite average daily emissions, which is based on proportioned haul truck trip distances, are adjusted to evaluate emissions from the 0.36-mile route within 1,000 of the project site.

⁴ Work hours applied in By Hour/Day (HRDOW) variable emissions module in air dispersion model (see App B - Air Dispersion Model Output).

⁵ Construction duration determined for each year of construction to adjust receptor exposures to the exposure durations for each construction year (see App C - Risk Calculations).

Criteria Air Pollutant Emissions Summary - Operations, 2023

Proposed Project

Unmitigated Operational

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area		0.09	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy		0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile		0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.09	0.02	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BAAQMD Threshold (T/YR)		10	10	NA	NA	NA	NA	15	NA	NA	10
Exceeds thresholds		No	No					No			No

Criteria Air Pollutant Emissions Summary - Operations, 2023

Annual emissions divided by 365 days/year to obtain average daily emissions.

Proposed Project											
	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area		0.48	0.01	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy		0.01	0.07	0.03	0.00	0.00	0.01	0.01	0.00	0.01	0.01
Mobile		0.00	0.03	0.03	0.00	0.02	0.00	0.02	0.00	0.00	0.00
Waste		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.49	0.11	0.60	0.00	0.02	0.01	0.02	0.00	0.01	0.01
BAAQMD Threshold (Daily)		54	54					82			54
Exceeds Threshold		No	No					No			No

Assumptions Worksheet

CalEEMod Inputs - The Mosaic Project, Construction

Name: The Mosaic Project, Construction
Project Number: TMP-01
Project Location: 17015 Cull Canyon Road
County: Alameda County
Climate Zone: 5
Land Use Setting: Urban
Operational Year: 2023
Utility Company: PG&E/East Bay Community Energy
Air Basin: SFBAAB
Air District: Bay Area Air Quality Management District (BAAQMD)

Project Site Acreage	37
Disturbed Site Acreage	2.0

Project Components	SQFT	Tons			
Demolition					
Garage Demolition	7,500	345			
Other Asphalt Demolition	16,956	251			
Existing Structures to Remain					
	Units	SQFT	Stories	Building Footprint (sqft)	ACRES
Mobile Home (future Caretaker's Unit)	1	1,206	1	1,206	0.03
Barn	1	970	1	970	0.02
New Construction					
	SQFT	Stories	Building Footprint (sqft)	ACRES	
Camping Cabins (12 x 400SF)	12	4,800	1	4,800	0.11
Central Meeting and Dining Hall		8,506	2	4,253	0.10
Restroom/Shower Building		1,025	1	1,025	0.02
Residential Home (Staff Housing)	1	2,636	2	1,318	0.03
Total New Building Area		16,967			0.26
Parking Lot ¹	15	6,000			0.14
Other Asphalt Surfaces ²		34,862			0.80
Landscaping/Hardscaping ²		34,862			0.80

Notes

- ¹ Model uses CalEEMod default parking area of 400sf/space
- ² Assumes half of remaining area not covered by building space or parking area will be half asphalt and half landscape/hardscape

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage*	Land Use Square Feet
Residential	Mobile Home Park	12.000	DU	0.23	14,331
Residential	Single Family Housing	1.000	DU	0.03	2,636
Parking	Parking Lot	6.000	1000 sqft	0.14	6,000
Parking	Other Asphalt Surfaces	34.862	1000 sqft	0.80	34,862
Parking	Other Non-asphalt Surfaces	34.862	1000 sqft	0.80	34,862
				2.00	

Demolition

Component	Amount to be Demolished (Tons)	Haul Truck Capacity (Tons) ¹	Haul Distance (miles) ²	Total Trip Ends	Duration (days)	Trip Ends/Day
Building Demolition	345	20	20	35	34	2
Asphalt Demolition	251	20	20	26	34	1
Total	596			61		

Notes

- ¹ CalEEMod default truck capacity
- ² CalEEMod default haul distance

Architectural Coating

	Percent Painted
Exterior	100%
Interior	100%

CalEEMod Default

	VOC content (grams/Liter)
Interior:	100
Exterior:	150

Structures	Land Use Square Feet	CalEEMod Factor ¹	Total Paintable Surface Area	Paintable Interior Area ²	Paintable Exterior Area ²
Total Residential Area³					
Camping Cabins (12 x 400SF)	4,800	2.7	12,960	9,720	3,240
Central Meeting and Dining Hall	8,506	2.7	22,966	17,225	5,742
Restroom/Shower Building	1,025	2.7	2,768	2,076	692
Residential Home (Staff Housing)	2,636	2.7	7,117	5,338	1,779
Mobile Home (future Caretaker's Unit)	1,206	2.7	3,256	2,442	814
Barn	970	2.7	2,619	1,964	655
				38,765	12,922
Parking					
Parking Lot ³	6,000	6%	360		360
			360		360

Notes

- ¹ The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user.
- ² CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.
- ³ Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

BAAQMD Construction BMPs

Replace Ground Cover	PM10:	5	% Reduction
Replace Ground Cover	PM2.5:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction
Water Demolished Area	Frequency:	2	per day
	PM10:	36	% Reduction
	PM25:	36	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph
	Clean Paved Road	9	% PM Reduction

Carbon Intensity Factors

East Bay Community Carbon Intensity Factors

EBC CO ₂ Intensity Factor ¹	427.57	pounds per megawatt hour
CO ₂ :	424.48	pounds per megawatt hour
CH ₄ : ²	0.0520	pound per megawatt hour
N ₂ O: ²	0.0062	pound per megawatt hour

Notes

¹ Based on the EBCE 2020 Power Mix

Construction Activities and Schedule Assumptions: The Mosaic Project

* Construction schedule provided by applicant

Construction Activities	Phase Type	Construction Schedule		CalEEMod Duration
		Start Date	End Date	
Demolition	Demolition	6/1/2022	6/28/2022	20
Demolition Debris Haul	Demolition	6/1/2022	6/28/2022	20
Site Preparation	Site Preparation	6/29/2022	6/30/2022	2
Grading	Grading	7/1/2022	7/6/2022	4
Building Construction	Building Construction	7/7/2022	4/12/2023	200
Paving	Paving	3/30/2023	4/12/2023	10
Architectural Coating	Architectural Coating	3/30/2023	4/12/2023	10

Normalization Calculations *

CalEEMod Defaults Construction Duration	
315	days of construction
0.86	years of construction
10.36	months of construction

Assumed Construction Duration	
6/1/2022	12/1/2023
548	days
18.02	months

Normalization Factor: 1.74

Normalized CalEEMod Construction Schedule Inputs

Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Demolition	Demolition	6/1/2022	7/18/2022	34
Demolition Debris Haul	Demolition	6/1/2022	7/18/2022	34
Site Preparation	Site Preparation	7/19/2022	7/22/2022	4
Grading	Grading	7/23/2022	8/2/2022	7
Building Construction	Building Construction	8/3/2022	12/1/2023	348
Paving	Paving	11/8/2023	12/1/2023	18
Architectural Coating	Architectural Coating	11/8/2023	12/1/2023	18

CalEEMod Construction Off-Road Equipment Inputs

*Based on CalEEMod defaults, assumed equipment would not be shared for most conservative results

General Construction Hours: 8 hours btwn 7:00 AM to 4:00 PM (with 1 hr break), Mon-Fri

Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day) ¹	Water Truck Capacity (gallons) ²
10,000	4,000

¹ Based on data provided in Guidance for Application for Dust Control Permit

(https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf)

² Based on standard water truck capacity (<https://www.mclellanindustries.com/trucks/water-trucks/>)

³ assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.

Construction Equipment Details						
Equipment	model	# of Equipment	hr/day	hp	load factor*	total trips
Demolition						
Concrete/Industrial Saws		1	8	81	0.73	
Rubber Tired Dozers		1	8	247	0.4	
Tractors/Loaders/Backhoes		3	8	97	0.37	
Worker Trips						13
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added to Vendor Trips)			Acres Disturbed:	2		10
Demolition Debris Haul						
No additional equipment for Demolition Debris Haul						
Worker Trips						0
Vendor Trips						0
Hauling Trips						61
Site Preparation						
Graders		1	8	187	0.41	
Rubber Tired Dozers		1	7	247	0.4	
Tractors/Loaders/Backhoes		1	8	97	0.37	
Worker Trips						8
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added to Vendor Trips)			Acres Disturbed:	1.44		8
Grading						
Graders		1	8	187	0.41	
Rubber Tired Dozers		1	8	247	0.4	
Tractors/Loaders/Backhoes		2	7	97	0.37	
Worker Trips						10
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added to Vendor Trips)			Acres Disturbed:	1.88		10
Building Construction						
Cranes		1	6	231	0.29	
Forklifts		1	6	89	0.2	
Generator Sets		1	8	84	0.74	
Tractors/Loaders/Backhoes		1	6	97	0.37	
Welders		3	8	46	0.45	
Worker Trips						41
Vendor Trips						14
Hauling Trips						0
Paving						
Cement and Mortar Mixers		1	6	9	0.56	
Pavers		1	6	130	0.42	
Paving Equipment		1	8	132	0.36	
Rollers		1	7	80	0.38	
Tractors/Loaders/Backhoes		1	8	97	0.37	
Worker Trips						13
Vendor Trips						0
Hauling Trips						0
Architectural Coating						
Air Compressors		1	6	78	0.48	
Worker Trips						8
Vendor Trips						0
Hauling Trips						0

Pavement Volume to Weight Conversion

Component	Total SF of Area ¹	Assumed Thickness (foot) ²	Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf) ³	AC Mass (lbs)	AC Mass (tons)
OtherAsphalt Demolition	16,956	0.333	5,652	89	502,400	251.20
Total	16,956					251

¹ Based on aerial image of existing project site.

² Pavements and Surface Materials. Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of

³ <https://www.calrecycle.ca.gov/swfacilities/cdi/Tools/Calculations>

Demo Haul Trip Calculation

Conversion factors*

0.046 ton/SF
1.2641662 tons/cy
20 tons
15.82070459 CY
0.791035229 CY/ton

Building	BSF Demo	Tons/SF	Tons	Haul Truck (CY)	Haul Truck (Ton)	Round Trips	Total Trip Ends
Garage Demolition	7,500	0.046	345	16	20.00	17	35

*CalEEMod User's Guide Version 2020.4, Appendix A

Construction Trips Worksheet

Phase Name	Worker Trip Ends Per	Vendor Trip Ends Per	Haul Truck Trip Ends	Total Haul Truck Trip	Start Date	End Date	Workdays
	Day	Day	Per Day	Ends			
Demolition	13	10	0	0	6/1/2022	7/18/2022	34
Demolition Debris Haul	0	0	2	61	6/1/2022	7/18/2022	34
Site Preparation	8	8	0	0	7/19/2022	7/22/2022	4
Grading	10	10	0	0	7/23/2022	8/2/2022	7
Building Construction	41	14	0	0	8/3/2022	12/1/2023	348
Paving	13	0	0	0	11/8/2023	12/1/2023	18
Architectural Coating	8	0	0	0	11/8/2023	12/1/2023	18

Construction Activity (Overlapping)	Worker Trip Ends Per	Vendor Trip Ends Per	Haul Truck Trip Ends	Total Trip Ends Per	Start Date	End Date	Workdays
	Day	Day	Per Day	Day			
Demolition	13	10	0	23	6/1/2022	7/18/2022	34
Demolition Debris Haul	0	0	2	2	6/1/2022	7/18/2022	34
Site Preparation	8	8	0	16	7/19/2022	7/22/2022	4
Grading	10	10	0	20	7/23/2022	8/2/2022	7
Building Construction	41	14	0	55	8/3/2022	12/1/2023	348
Building Construction, Paving, and Architectural Coating	62	14	0	76	11/8/2023	12/1/2023	18
Maximum Daily Trips	62	14	2	76			

CalEEMod Inputs - The Mosaic Project, Operations

Name: The Mosaic Project
Project Number: TMP-01
Project Location: 17015 Cull Canyon Road
County: Alameda County
Climate Zone: 5
Land Use Setting: Urban
Operational Year: 2023
Utility Company: PG&E/East Bay Community Energy
Air Basin: SFBAAAB
Air District: Bay Area Air Quality Management District (BAAQMD)

Project Site Acreage 37
Disturbed Site Acreage 2.0

Project Components	SQFT	Tons		Building Footprint (sqft)	ACRES
Existing Structures to Remain					
	Units	SQFT	Stories		
Mobile Home (future Caretaker's Unit)		1,206	1	1,206	0.03
Barn		970	1	970	0.02
New Construction					
		SQFT	Stories	Building Footprint (sqft)	ACRES
Camping Cabins (12 x 400SF)	12	4,800	1	4,800	0.11
Central Meeting and Dining Hall		8,506	2	4,253	0.10
Restroom/Shower Building		1,025	1	1,025	0.02
Residential Home (Staff Housing)	1	2,636	2	1,318	0.03
Total New Building Area		16,967			0.26
Parking Lot ¹	15	6,000			0.14
Other Asphalt Surfaces ²		34,862			0.80
Landscaping/Hardscaping ²		34,862			0.80

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Residential	Mobile Home Park ¹	12	DU	0.23	16,507
Residential	Single Family Housing	1	DU	0.03	2,636
Parking	Parking Lot	6	1000 sqft	0.14	6,000
Parking	Other Asphalt Surfaces	34.862	1000 sqft	0.80	34,862
Parking	Other Non-asphalt Surfaces	34.862	1000 sqft	0.80	34,862
				2.00	

Notes

¹ Includes the building area from the future caretakers unit and barn

Trips Calculations

Project will have: 23 Week Long Programs
12 Weekend Programs

	M ¹	T ²	W ²	Th ²	F ¹	Sat ²	Sun ²
Bus Trips (Annual)	147				147	24	24
Passenger Vehicle Trips (Annual)	690	230	230	230	690	120	120
Food Truck Trips (Annual)	46				46	0	
Water Truck Trips (Annual)	92						48
Total Trips	975	230	230	230	883	144	192

	Weekday	Saturday	Sunday
Total Trips	2,548	144	192
Average Trips	1.96	2.77	3.69
Trip Rate	0.16	0.23	0.31

Notes

¹ Monday and Friday Trips are based on trip generation from W-Trans Focused Traffic Study.

² Based on assumption that fewer than 10 daily trips would occur during weekends, Tuesday, Wednesday, and Thursday from W-Trans Traffic Study.

² Assumes two trucks will travel to/from the project site following the 23 program weeks and 1 after each of the weekend programs to remove brine from the water treatment process

Water Use

Land Use	Indoor	Outdoor	Total (gal/yr)
Total Water Use	786,000	0	786,000

Notes

¹ Assumes 100% aerobic treatment

² Based on information from applicant. Assumes all potable water use and assigns all water use to mobile home park

Solid Waste.

Land Use	Total Solid Waste (tons/yr)
Total Solid Waste	18

Notes

¹ Based on information from applicant. Added all solid waste to mobile home park land use

Architectural Coating

	Percent Painted
Exterior	100%
Interior	100%

CalEEMod Default

	VOC content (grams/Liter)
Interior:	100
Exterior:	150

Structures	Land Use Square Feet	CalEEMod Factor ¹	Total Paintable Surface Area	Paintable Interior Area ²	Paintable Exterior Area ²
Total Residential Area³					
Camping Cabins (12 x 400SF)	4,800	2.7	12,960	9,720	3,240
Central Meeting and Dining Hall	8,506	2.7	22,966	17,225	5,742
Restroom/Shower Building	1,025	2.7	2,768	2,076	692
Residential Home (Staff Housing)	2,636	2.7	7,117	5,338	1,779
Mobile Home (future Caretaker's Uni	1,206	2.7	3,256	2,442	814
Barn	970	2.7	2,619	1,964	655
				38,765	12,922
Parking					
Parking Lot ³	6,000	6%	360		360
			360		360

Notes

The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. The model assumes total surface painting of 2.7 times the floor space for the most conservative results.

² CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

³ painted.

Natural Gas Use from Fireplaces

Land Use Subtype	Number of Propane Fireplaces	Hours of Operation/Day ¹	Number of Days in Use/Year ¹	BTU/hr/fireplace	KBTU
Proposed Project	1.00	1.00	104.00	60,000.00	6,240.00

Notes

¹ Assumes use 1 hour of use 3 days per week during 23 week long programs and 1 day per weekend during weekend program and occasionally to start the day

Electricity (Buildings)

Default CalEEMod Energy Use

Land Use Subtype	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Lighting Energy Intensity (kWhr/size/year)	Title-24 Natural Gas Energy Intensity (KBTU/size/year)*	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)
Mobile Home Park	39.50	4,004.74	1,038.60	17,941.07	2,615.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.35	0.00	0.00
Single Family Housing	45.71	6,155.97	1,608.84	35,976.14	2,615.00

Carbon Intensity Factors

East Bay Community Carbon Intensity Factors

EBC CO ₂ Intensity Factor ¹	427.57	pounds per megawatt hour
CO ₂ :	424.48	pounds per megawatt hour
CH ₄ : ²	0.0520	pound per megawatt hour
N ₂ O: ²	0.0062	pound per megawatt hour

Notes

¹ Based on the EBCE 2020 Power Mix

East Bay Community Energy Carbon Intensity Factor Calculator

The project team calculated a custom electricity emissions factor for East Bay Community Energy (EBCE) by consulting the most recent data from the US EPA's Emissions & Generation Resource Integrated Database (eGRID). This database includes records of GHG emissions and power generation by all power plants in the United States. Using this information, the team determined the electricity emissions factor for all power plants within California by fuel source, since it is not feasible to identify the specific power plants that supply EBCE. The team consulted EBCE's Power Mix, which identifies the percent of EBCE's electricity generated by various fuel sources. Using the average emissions factor for power plants by fuel source, in combination with EBCE's specific fuel mix, the team was able to calculate an emissions factor that accurately reflects EBCE's particular sources of electricity.

Source: EBCE. 2022. 2020 Power Content Label. <https://ebce.org/our-power-mix/>. Accessed May 17, 2022

MTCO ₂ e			MTCO ₂ e/kWh
Source	Percent	Adjusted percent	Emission factor
Coal	0.00%	0.00%	0.00051255
Large hydro	14.50%	14.50%	0
Natural gas	0.10%	0.10%	0.00038755
Nuclear	0.90%	0.90%	0
Oil	0.00%	0.00%	0.00008742
Other/unspecified	44.90%	44.90%	0.00042800
Biomass	1.90%	1.90%	0.00003007
Geothermal	3.00%	3.00%	0.00002709
Small hydro	1.60%	1.60%	0
Solar	14.10%	14.10%	0
Wind	19.00%	19.00%	0
	100.00%	100.00%	

MTCO₂e/kWh

Emission factor	0.000193943
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Calculation check 0.000193943

MTCO₂e/MWh

0.1939434274

lbsCO₂e/MWh

427.568

East Bay Community Energy Carbon Intensity Factor Calculator

The project team calculated a custom electricity emissions factor for East Bay Community Energy (EBCE) by consulting the most recent data from the US EPA's Emissions & Generation Resource Integrated Database (eGRID). This database includes records of GHG emissions and power generation by all power plants in the United States. Using this information, the team determined the electricity emissions factor for all power plants within California by fuel source, since it is not feasible to identify the specific power plants that supply EBCE. The team consulted EBCE's Power Mix, which identifies the percent of EBCE's electricity generated by various fuel sources. Using the average emissions factor for power plants by fuel source, in combination with EBCE's specific fuel mix, the team was able to calculate an emissions factor that accurately reflects EBCE's particular sources of electricity.

Source: EBCE. 2022. 2020 Power Content Label. <https://ebce.org/our-power-mix/>. Accessed May 17, 2022

MTCO ₂			MTCO ₂ /kWh
Source	Percent	Adjusted percent	Emission factor
Coal	0.00%	0.00%	0.000510373
Large hydro	14.50%	14.50%	0
Natural gas	0.10%	0.10%	0.000387161
Nuclear	0.90%	0.90%	0
Oil	0.00%	0.00%	8.70222E-05
Other/unspecified	44.90%	44.90%	0.00042508
Biomass	1.90%	1.90%	2.52789E-05
Geothermal	3.00%	3.00%	2.70861E-05
Small hydro	1.60%	1.60%	0
Solar	14.10%	14.10%	0
Wind	19.00%	19.00%	0
	100.00%	100.00%	

MTCO₂/kWh

Emission factor	0.0001925429
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MTCO₂/MWh

0.192542875307

lbsCO₂/MWh

424.480

East Bay Community Energy Carbon Intensity Factor Calculator

The project team calculated a custom electricity emissions factor for East Bay Community Energy (EBCE) by consulting the most recent data from the US EPA's Emissions & Generation Resource Integrated Database (eGRID). This database includes records of GHG emissions and power generation by all power plants in the United States. Using this information, the team determined the electricity emissions factor for all power plants within California by fuel source, since it is not feasible to identify the specific power plants that supply EBCE. The team consulted EBCE's Power Mix, which identifies the percent of EBCE's electricity generated by various fuel sources. Using the average emissions factor for power plants by fuel source, in combination with EBCE's specific fuel mix, the team was able to calculate an emissions factor that accurately reflects EBCE's particular sources of electricity.

Source: EBCE. 2022. 2020 Power Content Label. <https://ebce.org/our-power-mix/>. Accessed May 17, 2022

MTCH ₄			MTCH ₄ /kWh
Source	Percent	Adjusted percent	Emission factor
Coal	0.00%	0.00%	5.6246E-08
Large hydro	14.50%	14.50%	0
Natural gas	0.10%	0.10%	6.89108E-09
Nuclear	0.90%	0.90%	0
Oil	0.00%	0.00%	6.45126E-09
Other/unspecified	44.90%	44.90%	0.00000005
Biomass	1.90%	1.90%	7.65816E-08
Geothermal	3.00%	3.00%	0
Small hydro	1.60%	1.60%	0
Solar	14.10%	14.10%	0
Wind	19.00%	19.00%	0
	100.00%	100.00%	

MTCH₄/kWh

Emission factor	0.000000023610
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MTCH₄/MWh

0.0000236095118280

lbsCH₄/MWh

0.052050

East Bay Community Energy Carbon Intensity Factor Calculator

The project team calculated a custom electricity emissions factor for East Bay Community Energy (EBCE) by consulting the most recent data from the US EPA's Emissions & Generation Resource Integrated Database (eGRID). This database includes records of GHG emissions and power generation by all power plants in the United States. Using this information, the team determined the electricity emissions factor for all power plants within California by fuel source, since it is not feasible to identify the specific power plants that supply EBCE. The team consulted EBCE's Power Mix, which identifies the percent of EBCE's electricity generated by various fuel sources. Using the average emissions factor for power plants by fuel source, in combination with EBCE's specific fuel mix, the team was able to calculate an emissions factor that accurately reflects EBCE's particular sources of electricity.

Source: EBCE. 2022. 2020 Power Content Label. <https://ebce.org/our-power-mix/>. Accessed May 17, 2022

MTN ₂ O			MTN ₂ O/kWh
Source	Percent	Adjusted percent	Emission factor
Coal	0.00%	0.00%	8.16475E-09
Large hydro	14.50%	14.50%	0
Natural gas	0.10%	0.10%	7.46256E-10
Nuclear	0.90%	0.90%	0
Oil	0.00%	0.00%	8.36344E-10
Other/unspecified	44.90%	44.90%	0.00
Biomass	1.90%	1.90%	9.98064E-09
Geothermal	3.00%	3.00%	0
Small hydro	1.60%	1.60%	0
Solar	14.10%	14.10%	0
Wind	19.00%	19.00%	0
	100.00%	100.00%	

MTN₂O/kWh

Emission factor	0.00000003
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MTN₂O/MWh

0.00000279051243210

lbsN₂O/MWh

0.00615196

CalEEMod Modeling: Construction and Operations

The Mosaic Project - Alameda County, Annual

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

**The Mosaic Project
Alameda County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	34.86	1000sqft	0.80	34,862.00	0
Other Non-Asphalt Surfaces	34.86	1000sqft	0.80	34,862.00	0
Parking Lot	6.00	1000sqft	0.14	6,000.00	0
Mobile Home Park	12.00	Dwelling Unit	0.23	14,331.00	34
Single Family Housing	1.00	Dwelling Unit	0.03	2,636.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	424.48	CH4 Intensity (lb/MWhr)	0.052	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on EBCE 2020 Power Mix

Land Use - "Mobile Home Park" includes area from dining hall and restroom/shower rooms.

Construction Phase - normalized schedule based on provided project duration of 1.5 years and CalEEMod defaults

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - No additional equipment for Demolition Debris Haul

Off-road Equipment -

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Off-road Equipment -

Off-road Equipment -

Trips and VMT - See calculations in assumptions file. Water truck trips added to vendor trips.

Demolition -

Grading -

Architectural Coating - includes area from existing mobile home and barn. Only considers parking lot asphalt area for parking painting.

Vehicle Trips - assigns all trips to mobile home park. Trips based on data from W-Trans and water treatment trips from applicant

Woodstoves - Assumes propane camp fireplace will be used for 1 hour over 3 days per week during 23 week long programs and 1 day per weekend during weekend

Area Coating - includes the area for mobile home and barn painting, parking coating only includes parking lot area

Energy Use -

Water And Wastewater - based on data from USS section. Assumes all potable water use, Assumes 100% aerobic treatment

Construction Off-road Equipment Mitigation - BAAQMD BMPs

Water Mitigation -

Fleet Mix - based on the vehicle fleet mix provided by the applicant

Solid Waste - 18 tons per year of waste generated based on USS section

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	4,543.00	360.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	11,453.00	12,922.00
tblArchitecturalCoating	ConstArea_Residential_Interior	34,358.00	38,765.00
tblAreaCoating	Area_Parking	4543	360
tblAreaCoating	Area_Residential_Exterior	11453	12922
tblAreaCoating	Area_Residential_Interior	34358	38765
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	18.00
tblConstructionPhase	NumDays	200.00	348.00
tblConstructionPhase	NumDays	20.00	34.00
tblConstructionPhase	NumDays	20.00	34.00

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

tblConstructionPhase	NumDays	4.00	7.00
tblConstructionPhase	NumDays	10.00	18.00
tblConstructionPhase	NumDays	2.00	4.00
tblConstructionPhase	PhaseEndDate	6/7/2023	12/1/2023
tblConstructionPhase	PhaseEndDate	5/10/2023	12/1/2023
tblConstructionPhase	PhaseEndDate	6/28/2022	7/18/2022
tblConstructionPhase	PhaseEndDate	7/26/2022	7/18/2022
tblConstructionPhase	PhaseEndDate	8/3/2022	8/2/2022
tblConstructionPhase	PhaseEndDate	5/24/2023	12/1/2023
tblConstructionPhase	PhaseEndDate	7/28/2022	7/22/2022
tblConstructionPhase	PhaseStartDate	5/25/2023	11/8/2023
tblConstructionPhase	PhaseStartDate	8/4/2022	8/3/2022
tblConstructionPhase	PhaseStartDate	6/29/2022	6/1/2022
tblConstructionPhase	PhaseStartDate	7/29/2022	7/23/2022
tblConstructionPhase	PhaseStartDate	5/11/2023	11/8/2023
tblConstructionPhase	PhaseStartDate	7/27/2022	7/19/2022
tblFireplaces	FireplaceDayYear	11.14	104.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	1.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	1.80	0.00
tblFireplaces	NumberGas	0.25	0.00
tblFireplaces	NumberNoFireplace	0.48	11.00
tblFireplaces	NumberNoFireplace	0.08	1.00
tblFireplaces	NumberPropane	0.00	1.00
tblFireplaces	NumberWood	2.04	0.00

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

tblFireplaces	NumberWood	0.43	0.00
tblFleetMix	HHD	0.01	0.00
tblFleetMix	LDA	0.57	0.56
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1210e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	2.4840e-003	0.00
tblFleetMix	MHD	0.01	0.08
tblFleetMix	OBUS	8.0000e-004	0.00
tblFleetMix	SBUS	3.3100e-004	0.12
tblFleetMix	UBUS	5.8000e-004	0.00
tblLandUse	LandUseSquareFeet	34,860.00	34,862.00
tblLandUse	LandUseSquareFeet	34,860.00	34,862.00
tblLandUse	LandUseSquareFeet	14,400.00	14,331.00
tblLandUse	LandUseSquareFeet	1,800.00	2,636.00
tblLandUse	LotAcreage	1.51	0.23
tblLandUse	LotAcreage	0.32	0.03
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.052
tblProjectCharacteristics	CO2IntensityFactor	203.98	424.48
tblProjectCharacteristics	N2OIntensityFactor	0.004	0.006
tblSolidWaste	SolidWasteGenerationRate	5.52	18.00
tblSolidWaste	SolidWasteGenerationRate	1.26	0.00

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tblTripsAndVMT	HaulingTripNumber	59.00	61.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.61	0.23
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	4.24	0.31
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	5.00	0.16
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	781,848.31	786,000.00
tblWater	IndoorWaterUseRate	65,154.03	0.00
tblWater	OutdoorWaterUseRate	492,904.37	0.00
tblWater	OutdoorWaterUseRate	41,075.36	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	0.24	0.00
tblWoodstoves	NumberCatalytic	0.04	0.00
tblWoodstoves	NumberNoncatalytic	0.24	0.00
tblWoodstoves	NumberNoncatalytic	0.04	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00

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

tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1349	1.1101	1.0468	2.1000e-003	0.0703	0.0506	0.1209	0.0262	0.0482	0.0744	0.0000	180.6346	180.6346	0.0301	3.7200e-003	182.4937
2023	0.3426	1.5557	1.7447	3.4700e-003	0.0514	0.0658	0.1172	0.0139	0.0634	0.0774	0.0000	294.7639	294.7639	0.0419	5.7500e-003	297.5244
Maximum	0.3426	1.5557	1.7447	3.4700e-003	0.0703	0.0658	0.1209	0.0262	0.0634	0.0774	0.0000	294.7639	294.7639	0.0419	5.7500e-003	297.5244

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1349	1.1101	1.0468	2.1000e-003	0.0433	0.0506	0.0939	0.0149	0.0482	0.0631	0.0000	180.6344	180.6344	0.0301	3.7200e-003	182.4935
2023	0.3426	1.5557	1.7447	3.4700e-003	0.0476	0.0658	0.1134	0.0130	0.0634	0.0764	0.0000	294.7636	294.7636	0.0419	5.7500e-003	297.5241
Maximum	0.3426	1.5557	1.7447	3.4700e-003	0.0476	0.0658	0.1134	0.0149	0.0634	0.0764	0.0000	294.7636	294.7636	0.0419	5.7500e-003	297.5241

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	25.32	0.00	12.95	30.60	0.00	8.08	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.5897	0.5897
2	9-1-2022	11-30-2022	0.4926	0.4926
3	12-1-2022	2-28-2023	0.4645	0.4645
4	3-1-2023	5-31-2023	0.4611	0.4611
5	6-1-2023	8-31-2023	0.4606	0.4606
6	9-1-2023	9-30-2023	0.1502	0.1502
		Highest	0.5897	0.5897

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0878	1.5600e-003	0.0975	1.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	0.5457	0.5457	1.6000e-004	3.0000e-005	0.5580
Energy	1.5400e-003	0.0131	5.5900e-003	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	28.8748	28.8748	1.9600e-003	4.7000e-004	29.0646
Mobile	5.2000e-004	4.6600e-003	5.9600e-003	3.0000e-005	2.8100e-003	3.0000e-005	2.8400e-003	8.5000e-004	3.0000e-005	8.8000e-004	0.0000	2.5872	2.5872	6.0000e-005	2.0000e-004	2.6495
Waste						0.0000	0.0000		0.0000	0.0000	3.6538	0.0000	3.6538	0.2159	0.0000	9.0522
Water						0.0000	0.0000		0.0000	0.0000	0.2781	0.8189	1.0970	1.0600e-003	6.2000e-004	1.3071
Total	0.0898	0.0194	0.1091	1.2000e-004	2.8100e-003	1.6500e-003	4.4600e-003	8.5000e-004	1.6500e-003	2.5000e-003	3.9319	32.8266	36.7585	0.2192	1.3200e-003	42.6314

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

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0878	1.5600e-003	0.0975	1.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	0.5457	0.5457	1.6000e-004	3.0000e-005	0.5580
Energy	1.5400e-003	0.0131	5.5900e-003	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	28.8748	28.8748	1.9600e-003	4.7000e-004	29.0646
Mobile	5.2000e-004	4.6600e-003	5.9600e-003	3.0000e-005	2.8100e-003	3.0000e-005	2.8400e-003	8.5000e-004	3.0000e-005	8.8000e-004	0.0000	2.5872	2.5872	6.0000e-005	2.0000e-004	2.6495
Waste						0.0000	0.0000		0.0000	0.0000	3.6538	0.0000	3.6538	0.2159	0.0000	9.0522
Water						0.0000	0.0000		0.0000	0.0000	0.2385	0.7023	0.9408	9.1000e-004	5.3000e-004	1.1210
Total	0.0898	0.0194	0.1091	1.2000e-004	2.8100e-003	1.6500e-003	4.4600e-003	8.5000e-004	1.6500e-003	2.5000e-003	3.8923	32.7100	36.6023	0.2190	1.2300e-003	42.4453

	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	1.01	0.36	0.42	0.07	6.82	0.44

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

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	6/1/2022	7/18/2022	5	34	a
2	Demolition Debris Haul	Demolition	6/1/2022	7/18/2022	5	34	b
3	Site Preparation	Site Preparation	7/19/2022	7/22/2022	5	4	c
4	Grading	Grading	7/23/2022	8/2/2022	5	7	d
5	Building Construction	Building Construction	8/3/2022	12/1/2023	5	348	e
6	Paving	Paving	11/8/2023	12/1/2023	5	18	f
7	Architectural Coating	Architectural Coating	11/8/2023	12/1/2023	5	18	g

Acres of Grading (Site Preparation Phase): 3.75

Acres of Grading (Grading Phase): 7

Acres of Paving: 1.74

Residential Indoor: 38,765; Residential Outdoor: 12,922; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 360

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
Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Demolition Debris Haul	Tractors/Loaders/Backhoes	0	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

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Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	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	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Debris Haul	0	0.00	0.00	61.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	41.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0287	0.2826	0.2373	4.1000e-004		0.0142	0.0142		0.0133	0.0133	0.0000	35.8321	35.8321	9.1300e-003	0.0000	36.0603
Total	0.0287	0.2826	0.2373	4.1000e-004		0.0142	0.0142		0.0133	0.0133	0.0000	35.8321	35.8321	9.1300e-003	0.0000	36.0603

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	3.5000e-004	9.3100e-003	2.6100e-003	4.0000e-005	1.1200e-003	9.0000e-005	1.2100e-003	3.2000e-004	9.0000e-005	4.1000e-004	0.0000	3.4323	3.4323	5.0000e-005	5.1000e-004	3.5870
Worker	6.2000e-004	4.5000e-004	5.3100e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7600e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4045	1.4045	4.0000e-005	4.0000e-005	1.4179
Total	9.7000e-004	9.7600e-003	7.9200e-003	6.0000e-005	2.8700e-003	1.0000e-004	2.9700e-003	7.8000e-004	1.0000e-004	8.8000e-004	0.0000	4.8368	4.8368	9.0000e-005	5.5000e-004	5.0048

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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	0.0287	0.2826	0.2373	4.1000e-004		0.0142	0.0142		0.0133	0.0133	0.0000	35.8320	35.8320	9.1300e-003	0.0000	36.0603
Total	0.0287	0.2826	0.2373	4.1000e-004		0.0142	0.0142		0.0133	0.0133	0.0000	35.8320	35.8320	9.1300e-003	0.0000	36.0603

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	3.5000e-004	9.3100e-003	2.6100e-003	4.0000e-005	1.0500e-003	9.0000e-005	1.1400e-003	3.1000e-004	9.0000e-005	4.0000e-004	0.0000	3.4323	3.4323	5.0000e-005	5.1000e-004	3.5870
Worker	6.2000e-004	4.5000e-004	5.3100e-003	2.0000e-005	1.6100e-003	1.0000e-005	1.6200e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.4045	1.4045	4.0000e-005	4.0000e-005	1.4179
Total	9.7000e-004	9.7600e-003	7.9200e-003	6.0000e-005	2.6600e-003	1.0000e-004	2.7600e-003	7.4000e-004	1.0000e-004	8.4000e-004	0.0000	4.8368	4.8368	9.0000e-005	5.5000e-004	5.0048

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3.3 Demolition Debris Haul - 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					6.3800e-003	0.0000	6.3800e-003	9.7000e-004	0.0000	9.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	6.3800e-003	0.0000	6.3800e-003	9.7000e-004	0.0000	9.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.4000e-004	5.1000e-003	1.0500e-003	2.0000e-005	5.2000e-004	5.0000e-005	5.6000e-004	1.4000e-004	5.0000e-005	1.9000e-004	0.0000	1.8673	1.8673	4.0000e-005	2.9000e-004	1.9562
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	0.0000	0.0000	0.0000	0.0000	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	1.4000e-004	5.1000e-003	1.0500e-003	2.0000e-005	5.2000e-004	5.0000e-005	5.6000e-004	1.4000e-004	5.0000e-005	1.9000e-004	0.0000	1.8673	1.8673	4.0000e-005	2.9000e-004	1.9562

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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					2.7300e-003	0.0000	2.7300e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	2.7300e-003	0.0000	2.7300e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.4000e-004	5.1000e-003	1.0500e-003	2.0000e-005	4.8000e-004	5.0000e-005	5.3000e-004	1.3000e-004	5.0000e-005	1.8000e-004	0.0000	1.8673	1.8673	4.0000e-005	2.9000e-004	1.9562
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	0.0000	0.0000	0.0000	0.0000	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	1.4000e-004	5.1000e-003	1.0500e-003	2.0000e-005	4.8000e-004	5.0000e-005	5.3000e-004	1.3000e-004	5.0000e-005	1.8000e-004	0.0000	1.8673	1.8673	4.0000e-005	2.9000e-004	1.9562

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3.4 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0125	0.0000	0.0125	6.0100e-003	0.0000	6.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6200e-003	0.0293	0.0142	3.0000e-005		1.2500e-003	1.2500e-003		1.1500e-003	1.1500e-003	0.0000	3.0231	3.0231	9.8000e-004	0.0000	3.0475
Total	2.6200e-003	0.0293	0.0142	3.0000e-005	0.0125	1.2500e-003	0.0138	6.0100e-003	1.1500e-003	7.1600e-003	0.0000	3.0231	3.0231	9.8000e-004	0.0000	3.0475

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	3.0000e-005	8.8000e-004	2.5000e-004	0.0000	1.1000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3230	0.3230	0.0000	5.0000e-005	0.3376
Worker	4.0000e-005	3.0000e-005	3.8000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1017	0.1017	0.0000	0.0000	0.1027
Total	7.0000e-005	9.1000e-004	6.3000e-004	0.0000	2.4000e-004	1.0000e-005	2.4000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.4247	0.4247	0.0000	5.0000e-005	0.4403

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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					5.3600e-003	0.0000	5.3600e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6200e-003	0.0293	0.0142	3.0000e-005		1.2500e-003	1.2500e-003		1.1500e-003	1.1500e-003	0.0000	3.0231	3.0231	9.8000e-004	0.0000	3.0475
Total	2.6200e-003	0.0293	0.0142	3.0000e-005	5.3600e-003	1.2500e-003	6.6100e-003	2.5700e-003	1.1500e-003	3.7200e-003	0.0000	3.0231	3.0231	9.8000e-004	0.0000	3.0475

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	3.0000e-005	8.8000e-004	2.5000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3230	0.3230	0.0000	5.0000e-005	0.3376
Worker	4.0000e-005	3.0000e-005	3.8000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1017	0.1017	0.0000	0.0000	0.1027
Total	7.0000e-005	9.1000e-004	6.3000e-004	0.0000	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.4247	0.4247	0.0000	5.0000e-005	0.4403

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3.5 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					0.0248	0.0000	0.0248	0.0120	0.0000	0.0120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3900e-003	0.0594	0.0323	7.0000e-005		2.6000e-003	2.6000e-003		2.3900e-003	2.3900e-003	0.0000	6.3360	6.3360	2.0500e-003	0.0000	6.3872
Total	5.3900e-003	0.0594	0.0323	7.0000e-005	0.0248	2.6000e-003	0.0274	0.0120	2.3900e-003	0.0144	0.0000	6.3360	6.3360	2.0500e-003	0.0000	6.3872

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	7.0000e-005	1.9200e-003	5.4000e-004	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7067	0.7067	1.0000e-005	1.1000e-004	0.7385
Worker	1.0000e-004	7.0000e-005	8.4000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2224	0.2224	1.0000e-005	1.0000e-005	0.2246
Total	1.7000e-004	1.9900e-003	1.3800e-003	1.0000e-005	5.1000e-004	2.0000e-005	5.3000e-004	1.4000e-004	2.0000e-005	1.7000e-004	0.0000	0.9291	0.9291	2.0000e-005	1.2000e-004	0.9630

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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					0.0106	0.0000	0.0106	5.1200e-003	0.0000	5.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3900e-003	0.0594	0.0323	7.0000e-005		2.6000e-003	2.6000e-003		2.3900e-003	2.3900e-003	0.0000	6.3359	6.3359	2.0500e-003	0.0000	6.3872
Total	5.3900e-003	0.0594	0.0323	7.0000e-005	0.0106	2.6000e-003	0.0132	5.1200e-003	2.3900e-003	7.5100e-003	0.0000	6.3359	6.3359	2.0500e-003	0.0000	6.3872

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	7.0000e-005	1.9200e-003	5.4000e-004	1.0000e-005	2.2000e-004	2.0000e-005	2.3000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7067	0.7067	1.0000e-005	1.1000e-004	0.7385
Worker	1.0000e-004	7.0000e-005	8.4000e-004	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2224	0.2224	1.0000e-005	1.0000e-005	0.2246
Total	1.7000e-004	1.9900e-003	1.3800e-003	1.0000e-005	4.8000e-004	2.0000e-005	4.9000e-004	1.3000e-004	2.0000e-005	1.5000e-004	0.0000	0.9291	0.9291	2.0000e-005	1.2000e-004	0.9630

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3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0890	0.6752	0.6872	1.1900e-003		0.0318	0.0318		0.0307	0.0307	0.0000	98.0515	98.0515	0.0171	0.0000	98.4785
Total	0.0890	0.6752	0.6872	1.1900e-003		0.0318	0.0318		0.0307	0.0307	0.0000	98.0515	98.0515	0.0171	0.0000	98.4785

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	1.5400e-003	0.0414	0.0116	1.6000e-004	4.9700e-003	4.2000e-004	5.3900e-003	1.4400e-003	4.0000e-004	1.8400e-003	0.0000	15.2638	15.2638	2.3000e-004	2.2900e-003	15.9514
Worker	6.2200e-003	4.4800e-003	0.0532	1.5000e-004	0.0175	1.0000e-004	0.0176	4.6600e-003	9.0000e-005	4.7500e-003	0.0000	14.0702	14.0702	4.5000e-004	4.1000e-004	14.2045
Total	7.7600e-003	0.0459	0.0648	3.1000e-004	0.0225	5.2000e-004	0.0230	6.1000e-003	4.9000e-004	6.5900e-003	0.0000	29.3341	29.3341	6.8000e-004	2.7000e-003	30.1559

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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	0.0890	0.6752	0.6872	1.1900e-003		0.0318	0.0318		0.0307	0.0307	0.0000	98.0514	98.0514	0.0171	0.0000	98.4784
Total	0.0890	0.6752	0.6872	1.1900e-003		0.0318	0.0318		0.0307	0.0307	0.0000	98.0514	98.0514	0.0171	0.0000	98.4784

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	1.5400e-003	0.0414	0.0116	1.6000e-004	4.6500e-003	4.2000e-004	5.0700e-003	1.3600e-003	4.0000e-004	1.7600e-003	0.0000	15.2638	15.2638	2.3000e-004	2.2900e-003	15.9514
Worker	6.2200e-003	4.4800e-003	0.0532	1.5000e-004	0.0161	1.0000e-004	0.0162	4.3200e-003	9.0000e-005	4.4100e-003	0.0000	14.0702	14.0702	4.5000e-004	4.1000e-004	14.2045
Total	7.7600e-003	0.0459	0.0648	3.1000e-004	0.0208	5.2000e-004	0.0213	5.6800e-003	4.9000e-004	6.1700e-003	0.0000	29.3341	29.3341	6.8000e-004	2.7000e-003	30.1559

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3.6 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	0.1828	1.4052	1.5133	2.6500e-003		0.0617	0.0617		0.0596	0.0596	0.0000	217.9190	217.9190	0.0370	0.0000	218.8441
Total	0.1828	1.4052	1.5133	2.6500e-003		0.0617	0.0617		0.0596	0.0596	0.0000	217.9190	217.9190	0.0370	0.0000	218.8441

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	1.7000e-003	0.0735	0.0222	3.4000e-004	0.0110	4.4000e-004	0.0115	3.1900e-003	4.2000e-004	3.6200e-003	0.0000	32.4984	32.4984	4.4000e-004	4.8700e-003	33.9596
Worker	0.0129	8.8200e-003	0.1094	3.3000e-004	0.0389	2.0000e-004	0.0391	0.0104	1.9000e-004	0.0105	0.0000	30.2899	30.2899	9.0000e-004	8.5000e-004	30.5660
Total	0.0146	0.0823	0.1316	6.7000e-004	0.0499	6.4000e-004	0.0506	0.0135	6.1000e-004	0.0142	0.0000	62.7882	62.7882	1.3400e-003	5.7200e-003	64.5256

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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	0.1828	1.4052	1.5133	2.6500e-003		0.0617	0.0617		0.0596	0.0596	0.0000	217.9187	217.9187	0.0370	0.0000	218.8438
Total	0.1828	1.4052	1.5133	2.6500e-003		0.0617	0.0617		0.0596	0.0596	0.0000	217.9187	217.9187	0.0370	0.0000	218.8438

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	1.7000e-003	0.0735	0.0222	3.4000e-004	0.0103	4.4000e-004	0.0108	3.0200e-003	4.2000e-004	3.4500e-003	0.0000	32.4984	32.4984	4.4000e-004	4.8700e-003	33.9596
Worker	0.0129	8.8200e-003	0.1094	3.3000e-004	0.0359	2.0000e-004	0.0361	9.6100e-003	1.9000e-004	9.7900e-003	0.0000	30.2899	30.2899	9.0000e-004	8.5000e-004	30.5660
Total	0.0146	0.0823	0.1316	6.7000e-004	0.0462	6.4000e-004	0.0469	0.0126	6.1000e-004	0.0132	0.0000	62.7882	62.7882	1.3400e-003	5.7200e-003	64.5256

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3.7 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	5.8000e-003	0.0561	0.0792	1.2000e-004		2.7800e-003	2.7800e-003		2.5600e-003	2.5600e-003	0.0000	10.5952	10.5952	3.3600e-003	0.0000	10.6792
Paving	1.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.0300e-003	0.0561	0.0792	1.2000e-004		2.7800e-003	2.7800e-003		2.5600e-003	2.5600e-003	0.0000	10.5952	10.5952	3.3600e-003	0.0000	10.6792

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	3.1000e-004	2.1000e-004	2.6000e-003	1.0000e-005	9.3000e-004	0.0000	9.3000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7203	0.7203	2.0000e-005	2.0000e-005	0.7269
Total	3.1000e-004	2.1000e-004	2.6000e-003	1.0000e-005	9.3000e-004	0.0000	9.3000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7203	0.7203	2.0000e-005	2.0000e-005	0.7269

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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	5.8000e-003	0.0561	0.0792	1.2000e-004		2.7800e-003	2.7800e-003		2.5600e-003	2.5600e-003	0.0000	10.5952	10.5952	3.3600e-003	0.0000	10.6791
Paving	1.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.0300e-003	0.0561	0.0792	1.2000e-004		2.7800e-003	2.7800e-003		2.5600e-003	2.5600e-003	0.0000	10.5952	10.5952	3.3600e-003	0.0000	10.6791

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	3.1000e-004	2.1000e-004	2.6000e-003	1.0000e-005	8.5000e-004	0.0000	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.7203	0.7203	2.0000e-005	2.0000e-005	0.7269
Total	3.1000e-004	2.1000e-004	2.6000e-003	1.0000e-005	8.5000e-004	0.0000	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.7203	0.7203	2.0000e-005	2.0000e-005	0.7269

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3.8 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	0.1360					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	0.1377	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.6000e-003	0.0000	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4433	0.4433	1.0000e-005	1.0000e-005	0.4473
Total	1.9000e-004	1.3000e-004	1.6000e-003	0.0000	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4433	0.4433	1.0000e-005	1.0000e-005	0.4473

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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	0.1360					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	0.1377	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.6000e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4433	0.4433	1.0000e-005	1.0000e-005	0.4473
Total	1.9000e-004	1.3000e-004	1.6000e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4433	0.4433	1.0000e-005	1.0000e-005	0.4473

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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	5.2000e-004	4.6600e-003	5.9600e-003	3.0000e-005	2.8100e-003	3.0000e-005	2.8400e-003	8.5000e-004	3.0000e-005	8.8000e-004	0.0000	2.5872	2.5872	6.0000e-005	2.0000e-004	2.6495
Unmitigated	5.2000e-004	4.6600e-003	5.9600e-003	3.0000e-005	2.8100e-003	3.0000e-005	2.8400e-003	8.5000e-004	3.0000e-005	8.8000e-004	0.0000	2.5872	2.5872	6.0000e-005	2.0000e-004	2.6495

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Mobile Home Park	1.92	2.76	3.72	5,975	5,975
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	1.92	2.76	3.72	5,975	5,975

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
Mobile Home Park	10.80	4.80	5.70	31.00	15.00	54.00	100	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Mobile Home Park	0.562057	0.055812	0.178625	0.000000	0.000000	0.000000	0.080030	0.000000	0.000000	0.000000	0.000000	0.123476	0.000000
Other Asphalt Surfaces	0.569121	0.056513	0.180870	0.112593	0.021111	0.005121	0.013190	0.012692	0.000800	0.000580	0.024593	0.000331	0.002484
Other Non-Asphalt Surfaces	0.569121	0.056513	0.180870	0.112593	0.021111	0.005121	0.013190	0.012692	0.000800	0.000580	0.024593	0.000331	0.002484
Parking Lot	0.569121	0.056513	0.180870	0.112593	0.021111	0.005121	0.013190	0.012692	0.000800	0.000580	0.024593	0.000331	0.002484
Single Family Housing	0.569121	0.056513	0.180870	0.112593	0.021111	0.005121	0.013190	0.012692	0.000800	0.000580	0.024593	0.000331	0.002484

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	13.6520	13.6520	1.6700e-003	1.9000e-004	13.7514
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	13.6520	13.6520	1.6700e-003	1.9000e-004	13.7514
NaturalGas Mitigated	1.5400e-003	0.0131	5.5900e-003	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	15.2228	15.2228	2.9000e-004	2.8000e-004	15.3132
NaturalGas Unmitigated	1.5400e-003	0.0131	5.5900e-003	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	15.2228	15.2228	2.9000e-004	2.8000e-004	15.3132

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Mobile Home Park	246673	1.3300e-003	0.0114	4.8400e-003	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1634	13.1634	2.5000e-004	2.4000e-004	13.2416
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
Other Non-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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38591.1	2.1000e-004	1.7800e-003	7.6000e-004	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0594	2.0594	4.0000e-005	4.0000e-005	2.0716
Total		1.5400e-003	0.0132	5.6000e-003	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	15.2228	15.2228	2.9000e-004	2.8000e-004	15.3132

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					
Mobile Home Park	246673	1.3300e-003	0.0114	4.8400e-003	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1634	13.1634	2.5000e-004	2.4000e-004	13.2416
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
Other Non-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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38591.1	2.1000e-004	1.7800e-003	7.6000e-004	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0594	2.0594	4.0000e-005	4.0000e-005	2.0716
Total		1.5400e-003	0.0132	5.6000e-003	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	15.2228	15.2228	2.9000e-004	2.8000e-004	15.3132

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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			
Mobile Home Park	60994.1	11.7439	1.4400e-003	1.7000e-004	11.8293
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2100	0.4043	5.0000e-005	1.0000e-005	0.4073
Single Family Housing	7810.52	1.5038	1.8000e-004	2.0000e-005	1.5148
Total		13.6520	1.6700e-003	2.0000e-004	13.7514

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Mobile Home Park	60994.1	11.7439	1.4400e-003	1.7000e-004	11.8293
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2100	0.4043	5.0000e-005	1.0000e-005	0.4073
Single Family Housing	7810.52	1.5038	1.8000e-004	2.0000e-005	1.5148
Total		13.6520	1.6700e-003	2.0000e-004	13.7514

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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0878	1.5600e-003	0.0975	1.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	0.5457	0.5457	1.6000e-004	3.0000e-005	0.5580
Unmitigated	0.0878	1.5600e-003	0.0975	1.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	0.5457	0.5457	1.6000e-004	3.0000e-005	0.5580

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	0.0136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0712					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.0000e-005	4.4000e-004	2.6000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3867	0.3867	1.0000e-005	3.0000e-005	0.3951
Landscaping	2.9700e-003	1.1200e-003	0.0972	1.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	0.1590	0.1590	1.6000e-004	0.0000	0.1629
Total	0.0878	1.5600e-003	0.0975	1.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	0.5457	0.5457	1.7000e-004	3.0000e-005	0.5580

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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	0.0136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0712					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.0000e-005	4.4000e-004	2.6000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3867	0.3867	1.0000e-005	3.0000e-005	0.3951
Landscaping	2.9700e-003	1.1200e-003	0.0972	1.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	0.1590	0.1590	1.6000e-004	0.0000	0.1629
Total	0.0878	1.5600e-003	0.0975	1.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	0.5457	0.5457	1.7000e-004	3.0000e-005	0.5580

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.9408	9.1000e-004	5.3000e-004	1.1210
Unmitigated	1.0970	1.0600e-003	6.2000e-004	1.3071

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7.2 Water by Land Use

Unmitigated

Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e	
Land Use	Mgal	MT/yr			
Mobile Home Park	0.786 / 0	1.0970	1.0600e-003	6.2000e-004	1.3071
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1.0970	1.0600e-003	6.2000e-004	1.3071

Mitigated

Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e	
Land Use	Mgal	MT/yr			
Mobile Home Park	0.674074 / 0	0.9408	9.1000e-004	5.3000e-004	1.1210
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.9408	9.1000e-004	5.3000e-004	1.1210

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.6538	0.2159	0.0000	9.0522
Unmitigated	3.6538	0.2159	0.0000	9.0522

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Mobile Home Park	18	3.6538	0.2159	0.0000	9.0522
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		3.6538	0.2159	0.0000	9.0522

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Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Mobile Home Park	18	3.6538	0.2159	0.0000	9.0522
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		3.6538	0.2159	0.0000	9.0522

9.0 Operational Offroad

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