

Appendix B

Air Quality, Greenhouse Gas, and
Energy Modeling Results

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

Humboldt Student Housing Project Unmit.

Humboldt County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	347.00	Space	3.12	138,800.00	0
Health Club	127.62	1000sqft	2.93	127,620.00	0
Apartments Mid Rise	241.00	Dwelling Unit	4.53	197,380.00	964

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	103
Climate Zone	1			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	140.9	CH4 Intensity (lb/MW hr)	0.035	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Emissions factors calculated using data from eGRID, Climate Registry and PG&E Power Content Label

Land Use - residential sqft based on data provided by Cal Poly Humboldt in "Craftsman Student Housing", remainder of sqft assigned to "health club" general land use

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Trip lengths reverted to defaults for "Urban" project location

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Demolition - sf calculated by estimating aggregate sf of existing structures to be demolished using Google Earth

Grading - no import or export; grading based on land use module

Architectural Coating - default VOC coatings

Vehicle Trips - trip lengths and rates calculated based on

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - no wood stoves or fireplaces

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use - PD states no natural gas will be used for operation of the project - calculations done to account for increase in electricity demand as a result

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - PD states all diesel construction equipment will be Tier 4

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	3,054.10	3,522.74
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	0.31	0.00
tblEnergyUse	T24E	176.92	816.54
tblEnergyUse	T24E	0.56	1.49
tblEnergyUse	T24NG	2,182.40	0.00
tblEnergyUse	T24NG	3.17	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	NumberGas	132.55	0.00
tblFireplaces	NumberNoFireplace	24.10	0.00
tblFireplaces	NumberWood	84.35	0.00
tblLandUse	LandUseSquareFeet	241,000.00	197,380.00

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tblLandUse	LotAcreage	6.34	4.53
tblLandUse	Population	689.00	964.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.035
tblProjectCharacteristics	CO2IntensityFactor	203.98	140.9
tblVehicleEF	LDA	0.62	0.62
tblVehicleEF	LDA	2.41	2.43
tblVehicleEF	LDA	245.02	250.03
tblVehicleEF	LDA	52.03	53.11
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.20	0.20
tblVehicleEF	LDA	1.5560e-003	1.5630e-003
tblVehicleEF	LDA	1.8500e-003	1.8590e-003
tblVehicleEF	LDA	1.4380e-003	1.4440e-003
tblVehicleEF	LDA	1.7010e-003	1.7100e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.26	0.26
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.28	0.28
tblVehicleEF	LDA	0.62	0.62
tblVehicleEF	LDA	2.13	2.14
tblVehicleEF	LDA	244.87	249.88

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tblVehicleEF	LDA	51.50	52.57
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.18	0.18
tblVehicleEF	LDA	1.5560e-003	1.5630e-003
tblVehicleEF	LDA	1.8500e-003	1.8590e-003
tblVehicleEF	LDA	1.4380e-003	1.4440e-003
tblVehicleEF	LDA	1.7010e-003	1.7100e-003
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.23	0.23
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.25	0.25
tblVehicleEF	LDA	0.62	0.63
tblVehicleEF	LDA	2.78	2.79
tblVehicleEF	LDA	244.10	249.09
tblVehicleEF	LDA	52.71	53.80
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.21	0.21
tblVehicleEF	LDA	1.5560e-003	1.5630e-003
tblVehicleEF	LDA	1.8500e-003	1.8590e-003
tblVehicleEF	LDA	1.4380e-003	1.4440e-003
tblVehicleEF	LDA	1.7010e-003	1.7100e-003

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tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.14	0.14
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.29	0.29
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.14	0.14
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.31	0.31
tblVehicleEF	LDT1	1.72	1.73
tblVehicleEF	LDT1	2.95	2.96
tblVehicleEF	LDT1	308.62	315.00
tblVehicleEF	LDT1	68.50	69.92
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.39
tblVehicleEF	LDT1	2.5100e-003	2.5220e-003
tblVehicleEF	LDT1	3.1400e-003	3.1560e-003
tblVehicleEF	LDT1	2.3120e-003	2.3230e-003
tblVehicleEF	LDT1	2.8870e-003	2.9020e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.41	0.41
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.23	0.23
tblVehicleEF	LDT1	0.63	0.63
tblVehicleEF	LDT1	0.14	0.14

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tblVehicleEF	LDT1	0.41	0.41
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.23	0.23
tblVehicleEF	LDT1	0.69	0.69
tblVehicleEF	LDT1	1.71	1.71
tblVehicleEF	LDT1	2.59	2.60
tblVehicleEF	LDT1	308.45	314.83
tblVehicleEF	LDT1	67.73	69.14
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.36	0.36
tblVehicleEF	LDT1	2.5100e-003	2.5220e-003
tblVehicleEF	LDT1	3.1400e-003	3.1560e-003
tblVehicleEF	LDT1	2.3120e-003	2.3230e-003
tblVehicleEF	LDT1	2.8870e-003	2.9020e-003
tblVehicleEF	LDT1	0.27	0.27
tblVehicleEF	LDT1	0.40	0.40
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.57	0.57
tblVehicleEF	LDT1	0.27	0.27
tblVehicleEF	LDT1	0.40	0.40
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.62	0.62
tblVehicleEF	LDT1	1.73	1.74
tblVehicleEF	LDT1	3.40	3.41

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tblVehicleEF	LDT1	307.63	313.99
tblVehicleEF	LDT1	69.48	70.92
tblVehicleEF	LDT1	0.21	0.21
tblVehicleEF	LDT1	0.42	0.42
tblVehicleEF	LDT1	2.5100e-003	2.5220e-003
tblVehicleEF	LDT1	3.1400e-003	3.1560e-003
tblVehicleEF	LDT1	2.3120e-003	2.3230e-003
tblVehicleEF	LDT1	2.8870e-003	2.9020e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.44	0.44
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.28	0.28
tblVehicleEF	LDT1	0.71	0.71
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.44	0.44
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.28	0.28
tblVehicleEF	LDT1	0.77	0.77
tblVehicleEF	LDT2	1.09	1.10
tblVehicleEF	LDT2	3.32	3.33
tblVehicleEF	LDT2	328.24	334.99
tblVehicleEF	LDT2	72.74	74.24
tblVehicleEF	LDT2	0.13	0.13
tblVehicleEF	LDT2	0.40	0.40
tblVehicleEF	LDT2	1.6160e-003	1.6240e-003
tblVehicleEF	LDT2	2.0410e-003	2.0510e-003
tblVehicleEF	LDT2	1.4890e-003	1.4960e-003

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tblVehicleEF	LDT2	1.8770e-003	1.8860e-003
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.25	0.25
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.48	0.48
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.25	0.25
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.52	0.52
tblVehicleEF	LDT2	1.08	1.09
tblVehicleEF	LDT2	2.92	2.93
tblVehicleEF	LDT2	328.08	334.82
tblVehicleEF	LDT2	71.96	73.45
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.37	0.37
tblVehicleEF	LDT2	1.6160e-003	1.6240e-003
tblVehicleEF	LDT2	2.0410e-003	2.0510e-003
tblVehicleEF	LDT2	1.4890e-003	1.4960e-003
tblVehicleEF	LDT2	1.8770e-003	1.8860e-003
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.24	0.24
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.43	0.43

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tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.24	0.24
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.47	0.47
tblVehicleEF	LDT2	1.10	1.10
tblVehicleEF	LDT2	3.81	3.83
tblVehicleEF	LDT2	327.27	334.00
tblVehicleEF	LDT2	73.72	75.24
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.43	0.43
tblVehicleEF	LDT2	1.6160e-003	1.6240e-003
tblVehicleEF	LDT2	2.0410e-003	2.0510e-003
tblVehicleEF	LDT2	1.4890e-003	1.4960e-003
tblVehicleEF	LDT2	1.8770e-003	1.8860e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.26	0.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.53	0.54
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.26	0.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.59	0.59
tblVehicleEF	MDV	0.98	0.98

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

tblVehicleEF	MDV	3.68	3.70
tblVehicleEF	MDV	397.85	405.76
tblVehicleEF	MDV	85.65	87.42
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.43	0.43
tblVehicleEF	MDV	1.6710e-003	1.6780e-003
tblVehicleEF	MDV	2.1430e-003	2.1540e-003
tblVehicleEF	MDV	1.5460e-003	1.5530e-003
tblVehicleEF	MDV	1.9710e-003	1.9810e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.55	0.55
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.60	0.60
tblVehicleEF	MDV	0.97	0.98
tblVehicleEF	MDV	3.24	3.26
tblVehicleEF	MDV	397.69	405.60
tblVehicleEF	MDV	84.78	86.54
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.40	0.40
tblVehicleEF	MDV	1.6710e-003	1.6780e-003
tblVehicleEF	MDV	2.1430e-003	2.1540e-003

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

tblVehicleEF	MDV	1.5460e-003	1.5530e-003
tblVehicleEF	MDV	1.9710e-003	1.9810e-003
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.50	0.50
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.54	0.54
tblVehicleEF	MDV	0.98	0.99
tblVehicleEF	MDV	4.24	4.26
tblVehicleEF	MDV	396.88	404.77
tblVehicleEF	MDV	86.76	88.55
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.46	0.46
tblVehicleEF	MDV	1.6710e-003	1.6780e-003
tblVehicleEF	MDV	2.1430e-003	2.1540e-003
tblVehicleEF	MDV	1.5460e-003	1.5530e-003
tblVehicleEF	MDV	1.9710e-003	1.9810e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.18	0.18

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

tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.67	0.67
tblVehicleEF	OBUS	9.9000e-005	9.8000e-005
tblVehicleEF	UBUS	4.6000e-005	4.5000e-005
tblVehicleEF	UBUS	4.6000e-005	4.5000e-005
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	5.53
tblVehicleTrips	HS_TL	7.30	5.53
tblVehicleTrips	HW_TL	10.80	5.53
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.91	15.75
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	4.09	15.75
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	5.44	15.75
tblVehicleTrips	WD_TR	32.93	0.00
tblWoodstoves	NumberCatalytic	12.05	0.00

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tblWoodstoves	NumberNoncatalytic	12.05	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

2.0 Emissions Summary

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2023	3.4349	34.5937	28.7393	0.0635	19.8049	1.4255	21.0718	10.1417	1.3115	11.3073	0.0000	6,153.4959	6,153.4959	1.9511	0.3080	6,239.2691
2024	461.9538	18.4210	26.3311	0.0609	2.8080	0.6526	3.4606	0.7553	0.6140	1.3694	0.0000	6,046.4625	6,046.4625	0.7186	0.2966	6,152.3354
Maximum	461.9538	34.5937	28.7393	0.0635	19.8049	1.4255	21.0718	10.1417	1.3115	11.3073	0.0000	6,153.4959	6,153.4959	1.9511	0.3080	6,239.2691

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	lb/day										lb/day					
2023	3.4349	34.5937	28.7393	0.0635	19.8049	1.4255	21.0718	10.1417	1.3115	11.3073	0.0000	6,153.4959	6,153.4959	1.9511	0.3080	6,239.2691
2024	461.9538	18.4210	26.3311	0.0609	2.8080	0.6526	3.4606	0.7553	0.6140	1.3694	0.0000	6,046.4625	6,046.4625	0.7186	0.2966	6,152.3354
Maximum	461.9538	34.5937	28.7393	0.0635	19.8049	1.4255	21.0718	10.1417	1.3115	11.3073	0.0000	6,153.4959	6,153.4959	1.9511	0.3080	6,239.2691

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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	lb/day										lb/day					
Area	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705
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
Mobile	13.1508	20.4781	108.9079	0.1622	16.1573	0.2001	16.3574	4.3147	0.1884	4.5032		16,766.8560	16,766.8560	1.5478	1.1125	17,137.0601
Total	23.2856	20.7075	128.8307	0.1633	16.1573	0.3105	16.4677	4.3147	0.2988	4.6135	0.0000	16,802.7610	16,802.7610	1.5824	1.1125	17,173.8306

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	lb/day										lb/day					
Area	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705
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
Mobile	13.1508	20.4781	108.9079	0.1622	16.1573	0.2001	16.3574	4.3147	0.1884	4.5032		16,766.8560	16,766.8560	1.5478	1.1125	17,137.0601
Total	23.2856	20.7075	128.8307	0.1633	16.1573	0.3105	16.4677	4.3147	0.2988	4.6135	0.0000	16,802.7610	16,802.7610	1.5824	1.1125	17,173.8306

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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	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	3/1/2023	3/28/2023	5	20	
2	Site Preparation	Site Preparation	3/29/2023	4/11/2023	5	10	
3	Grading	Grading	4/12/2023	5/23/2023	5	30	
4	Building Construction	Building Construction	5/24/2023	7/16/2024	5	300	
5	Paving	Paving	7/17/2024	8/13/2024	5	20	
6	Architectural Coating	Architectural Coating	8/14/2024	9/10/2024	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 3.12

Residential Indoor: 399,695; Residential Outdoor: 133,232; Non-Residential Indoor: 191,430; Non-Residential Outdoor: 63,810; Striped Parking Area: 8,328 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	191.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	285.00	69.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0713	0.0000	2.0713	0.3136	0.0000	0.3136			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	2.0713	0.9975	3.0689	0.3136	0.9280	1.2416		3,746.9840	3,746.9840	1.0494		3,773.2183

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	lb/day										lb/day					
Hauling	0.0271	1.7033	0.2767	5.8800e-003	0.1666	0.0140	0.1806	0.0456	0.0134	0.0590		622.0349	622.0349	1.2600e-003	0.0978	651.1978
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
Worker	0.0849	0.0586	0.5161	1.0500e-003	0.1232	7.8000e-004	0.1240	0.0327	7.2000e-004	0.0334		106.5137	106.5137	5.1400e-003	4.6000e-003	108.0122
Total	0.1120	1.7619	0.7928	6.9300e-003	0.2898	0.0148	0.3046	0.0783	0.0141	0.0924		728.5486	728.5486	6.4000e-003	0.1024	759.2100

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0713	0.0000	2.0713	0.3136	0.0000	0.3136			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	2.0713	0.9975	3.0689	0.3136	0.9280	1.2416	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183

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	lb/day										lb/day					
Hauling	0.0271	1.7033	0.2767	5.8800e-003	0.1666	0.0140	0.1806	0.0456	0.0134	0.0590		622.0349	622.0349	1.2600e-003	0.0978	651.1978
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
Worker	0.0849	0.0586	0.5161	1.0500e-003	0.1232	7.8000e-004	0.1240	0.0327	7.2000e-004	0.0334		106.5137	106.5137	5.1400e-003	4.6000e-003	108.0122
Total	0.1120	1.7619	0.7928	6.9300e-003	0.2898	0.0148	0.3046	0.0783	0.0141	0.0924		728.5486	728.5486	6.4000e-003	0.1024	759.2100

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	lb/day										lb/day					
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
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
Worker	0.1019	0.0703	0.6193	1.2600e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		127.8164	127.8164	6.1700e-003	5.5200e-003	129.6147
Total	0.1019	0.0703	0.6193	1.2600e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		127.8164	127.8164	6.1700e-003	5.5200e-003	129.6147

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	lb/day										lb/day					
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
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
Worker	0.1019	0.0703	0.6193	1.2600e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		127.8164	127.8164	6.1700e-003	5.5200e-003	129.6147
Total	0.1019	0.0703	0.6193	1.2600e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		127.8164	127.8164	6.1700e-003	5.5200e-003	129.6147

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.2036	1.4245	10.6281	3.6538	1.3105	4.9643		6,011.4777	6,011.4777	1.9442		6,060.0836

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	lb/day										lb/day					
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
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
Worker	0.1132	0.0781	0.6881	1.4000e-003	0.1643	1.0400e-003	0.1653	0.0436	9.6000e-004	0.0445		142.0182	142.0182	6.8500e-003	6.1300e-003	144.0163
Total	0.1132	0.0781	0.6881	1.4000e-003	0.1643	1.0400e-003	0.1653	0.0436	9.6000e-004	0.0445		142.0182	142.0182	6.8500e-003	6.1300e-003	144.0163

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.2036	1.4245	10.6281	3.6538	1.3105	4.9643	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

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	lb/day										lb/day					
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
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
Worker	0.1132	0.0781	0.6881	1.4000e-003	0.1643	1.0400e-003	0.1653	0.0436	9.6000e-004	0.0445		142.0182	142.0182	6.8500e-003	6.1300e-003	144.0163
Total	0.1132	0.0781	0.6881	1.4000e-003	0.1643	1.0400e-003	0.1653	0.0436	9.6000e-004	0.0445		142.0182	142.0182	6.8500e-003	6.1300e-003	144.0163

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	lb/day										lb/day					
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
Vendor	0.1438	4.0881	1.2179	0.0147	0.4667	0.0261	0.4928	0.1343	0.0250	0.1593		1,550.7142	1,550.7142	6.6700e-003	0.2206	1,616.6311
Worker	1.6128	1.1135	9.8054	0.0200	2.3412	0.0148	2.3560	0.6210	0.0137	0.6347		2,023.7596	2,023.7596	0.0977	0.0874	2,052.2320
Total	1.7566	5.2016	11.0234	0.0348	2.8079	0.0409	2.8489	0.7553	0.0387	0.7940		3,574.4738	3,574.4738	0.1043	0.3080	3,668.8630

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	lb/day										lb/day					
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
Vendor	0.1438	4.0881	1.2179	0.0147	0.4667	0.0261	0.4928	0.1343	0.0250	0.1593		1,550.7142	1,550.7142	6.6700e-003	0.2206	1,616.6311
Worker	1.6128	1.1135	9.8054	0.0200	2.3412	0.0148	2.3560	0.6210	0.0137	0.6347		2,023.7596	2,023.7596	0.0977	0.0874	2,052.2320
Total	1.7566	5.2016	11.0234	0.0348	2.8079	0.0409	2.8489	0.7553	0.0387	0.7940		3,574.4738	3,574.4738	0.1043	0.3080	3,668.8630

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	lb/day										lb/day					
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
Vendor	0.1391	3.9881	1.1881	0.0145	0.4668	0.0255	0.4923	0.1343	0.0244	0.1588		1,528.7808	1,528.7808	6.3700e-003	0.2163	1,593.3901
Worker	1.5187	0.9891	8.9761	0.0194	2.3412	0.0138	2.3550	0.6210	0.0127	0.6337		1,961.9828	1,961.9828	0.0883	0.0804	1,988.1377
Total	1.6577	4.9772	10.1643	0.0339	2.8080	0.0393	2.8473	0.7553	0.0371	0.7925		3,490.7636	3,490.7636	0.0947	0.2966	3,581.5278

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	lb/day										lb/day					
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
Vendor	0.1391	3.9881	1.1881	0.0145	0.4668	0.0255	0.4923	0.1343	0.0244	0.1588		1,528.7808	1,528.7808	6.3700e-003	0.2163	1,593.3901
Worker	1.5187	0.9891	8.9761	0.0194	2.3412	0.0138	2.3550	0.6210	0.0127	0.6337		1,961.9828	1,961.9828	0.0883	0.0804	1,988.1377
Total	1.6577	4.9772	10.1643	0.0339	2.8080	0.0393	2.8473	0.7553	0.0371	0.7925		3,490.7636	3,490.7636	0.0947	0.2966	3,581.5278

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.4087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3969	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

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	lb/day										lb/day					
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
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
Worker	0.0799	0.0521	0.4724	1.0200e-003	0.1232	7.3000e-004	0.1240	0.0327	6.7000e-004	0.0334		103.2623	103.2623	4.6500e-003	4.2300e-003	104.6388
Total	0.0799	0.0521	0.4724	1.0200e-003	0.1232	7.3000e-004	0.1240	0.0327	6.7000e-004	0.0334		103.2623	103.2623	4.6500e-003	4.2300e-003	104.6388

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

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	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.4087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3969	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

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	lb/day										lb/day					
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
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
Worker	0.0799	0.0521	0.4724	1.0200e-003	0.1232	7.3000e-004	0.1240	0.0327	6.7000e-004	0.0334		103.2623	103.2623	4.6500e-003	4.2300e-003	104.6388
Total	0.0799	0.0521	0.4724	1.0200e-003	0.1232	7.3000e-004	0.1240	0.0327	6.7000e-004	0.0334		103.2623	103.2623	4.6500e-003	4.2300e-003	104.6388

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

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	lb/day										lb/day					
Archit. Coating	461.4693					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	461.6501	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	lb/day										lb/day					
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
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
Worker	0.3037	0.1978	1.7952	3.8800e-003	0.4682	2.7600e-003	0.4710	0.1242	2.5400e-003	0.1267		392.3966	392.3966	0.0177	0.0161	397.6275
Total	0.3037	0.1978	1.7952	3.8800e-003	0.4682	2.7600e-003	0.4710	0.1242	2.5400e-003	0.1267		392.3966	392.3966	0.0177	0.0161	397.6275

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

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	lb/day										lb/day					
Archit. Coating	461.4693					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	461.6501	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	lb/day										lb/day					
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
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
Worker	0.3037	0.1978	1.7952	3.8800e-003	0.4682	2.7600e-003	0.4710	0.1242	2.5400e-003	0.1267		392.3966	392.3966	0.0177	0.0161	397.6275
Total	0.3037	0.1978	1.7952	3.8800e-003	0.4682	2.7600e-003	0.4710	0.1242	2.5400e-003	0.1267		392.3966	392.3966	0.0177	0.0161	397.6275

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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	lb/day										lb/day					
Mitigated	13.1508	20.4781	108.9079	0.1622	16.1573	0.2001	16.3574	4.3147	0.1884	4.5032		16,766.85 60	16,766.85 60	1.5478	1.1125	17,137.06 01
Unmitigated	13.1508	20.4781	108.9079	0.1622	16.1573	0.2001	16.3574	4.3147	0.1884	4.5032		16,766.85 60	16,766.85 60	1.5478	1.1125	17,137.06 01

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	3,795.75	3,795.75	3795.75	7,640,541	7,640,541
Health Club	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	3,795.75	3,795.75	3,795.75	7,640,541	7,640,541

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
Apartments Mid Rise	5.53	5.53	5.53	42.30	19.60	38.10	100	0	0
Health Club	0.00	0.00	0.00	16.90	64.10	19.00	52	39	9
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842
Health Club	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842
Parking Lot	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Health Club	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
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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Health Club	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
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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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	lb/day										lb/day					
Mitigated	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705
Unmitigated	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705

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	lb/day										lb/day					
Architectural Coating	2.5286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.0042					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6021	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103		35.9050	35.9050	0.0346		36.7705
Total	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

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	lb/day										lb/day					
Architectural Coating	2.5286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.0042					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6021	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103		35.9050	35.9050	0.0346		36.7705
Total	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705

7.0 Water Detail

7.1 Mitigation Measures Water

Humboldt Student Housing Project Unmit. - Humboldt County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Humboldt Student Housing Project Mit - Revised - Humboldt County, Winter

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

**Humboldt Student Housing Project Mit - Revised
Humboldt County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	347.00	Space	3.12	138,800.00	0
Health Club	127.62	1000sqft	2.93	127,620.00	0
Apartments Mid Rise	241.00	Dwelling Unit	4.53	197,380.00	964

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	103
Climate Zone	1			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	140.9	CH4 Intensity (lb/MW hr)	0.035	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Emissions factors calculated using data from eGRID, Climate Registry and PG&E Power Content Label

Land Use - residential sqft based on data provided by Cal Poly Humboldt in "Craftsman Student Housing", remainder of sqft assigned to "health club" general land use

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Worker and vendor trips reverted to default values for "urban" project location

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Demolition - sf calculated by estimating aggregate sf of existing structures to be demolished using Google Earth

Grading - no import or export; grading based on land use module

Architectural Coating - mitigated VOC coatings

Vehicle Trips - trip lengths and rates calculated based on

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - no wood stoves or fireplaces

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use - PD states no natural gas will be used for operation of the project - calculations done to account for increase in electricity demand as a result

Water And Wastewater -

Solid Waste -

Sequestration -

Construction Off-road Equipment Mitigation - PD states all diesel construction equipment will be Tier 4

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblEnergyUse	NT24E	3,054.10	3,522.74
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	0.31	0.00
tblEnergyUse	T24E	176.92	816.54
tblEnergyUse	T24E	0.56	1.49
tblEnergyUse	T24NG	2,182.40	0.00

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tblEnergyUse	T24NG	3.17	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	NumberGas	132.55	0.00
tblFireplaces	NumberNoFireplace	24.10	0.00
tblFireplaces	NumberWood	84.35	0.00
tblLandUse	LandUseSquareFeet	241,000.00	197,380.00
tblLandUse	LotAcreage	6.34	4.53
tblLandUse	Population	689.00	964.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.035
tblProjectCharacteristics	CO2IntensityFactor	203.98	140.9
tblVehicleEF	LDA	0.62	0.62
tblVehicleEF	LDA	2.41	2.43
tblVehicleEF	LDA	245.02	250.03
tblVehicleEF	LDA	52.03	53.11
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.20	0.20
tblVehicleEF	LDA	1.5560e-003	1.5630e-003
tblVehicleEF	LDA	1.8500e-003	1.8590e-003
tblVehicleEF	LDA	1.4380e-003	1.4440e-003
tblVehicleEF	LDA	1.7010e-003	1.7100e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.26	0.26
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.04

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tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.28	0.28
tblVehicleEF	LDA	0.62	0.62
tblVehicleEF	LDA	2.13	2.14
tblVehicleEF	LDA	244.87	249.88
tblVehicleEF	LDA	51.50	52.57
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.18	0.18
tblVehicleEF	LDA	1.5560e-003	1.5630e-003
tblVehicleEF	LDA	1.8500e-003	1.8590e-003
tblVehicleEF	LDA	1.4380e-003	1.4440e-003
tblVehicleEF	LDA	1.7010e-003	1.7100e-003
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.23	0.23
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.25	0.25
tblVehicleEF	LDA	0.62	0.63
tblVehicleEF	LDA	2.78	2.79
tblVehicleEF	LDA	244.10	249.09
tblVehicleEF	LDA	52.71	53.80

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tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.21	0.21
tblVehicleEF	LDA	1.5560e-003	1.5630e-003
tblVehicleEF	LDA	1.8500e-003	1.8590e-003
tblVehicleEF	LDA	1.4380e-003	1.4440e-003
tblVehicleEF	LDA	1.7010e-003	1.7100e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.14	0.14
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.29	0.29
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.14	0.14
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.31	0.31
tblVehicleEF	LDT1	1.72	1.73
tblVehicleEF	LDT1	2.95	2.96
tblVehicleEF	LDT1	308.62	315.00
tblVehicleEF	LDT1	68.50	69.92
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.39
tblVehicleEF	LDT1	2.5100e-003	2.5220e-003
tblVehicleEF	LDT1	3.1400e-003	3.1560e-003
tblVehicleEF	LDT1	2.3120e-003	2.3230e-003
tblVehicleEF	LDT1	2.8870e-003	2.9020e-003
tblVehicleEF	LDT1	0.14	0.14

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

tblVehicleEF	LDT1	0.41	0.41
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.23	0.23
tblVehicleEF	LDT1	0.63	0.63
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.41	0.41
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.23	0.23
tblVehicleEF	LDT1	0.69	0.69
tblVehicleEF	LDT1	1.71	1.71
tblVehicleEF	LDT1	2.59	2.60
tblVehicleEF	LDT1	308.45	314.83
tblVehicleEF	LDT1	67.73	69.14
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.36	0.36
tblVehicleEF	LDT1	2.5100e-003	2.5220e-003
tblVehicleEF	LDT1	3.1400e-003	3.1560e-003
tblVehicleEF	LDT1	2.3120e-003	2.3230e-003
tblVehicleEF	LDT1	2.8870e-003	2.9020e-003
tblVehicleEF	LDT1	0.27	0.27
tblVehicleEF	LDT1	0.40	0.40
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.57	0.57
tblVehicleEF	LDT1	0.27	0.27
tblVehicleEF	LDT1	0.40	0.40

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

tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.62	0.62
tblVehicleEF	LDT1	1.73	1.74
tblVehicleEF	LDT1	3.40	3.41
tblVehicleEF	LDT1	307.63	313.99
tblVehicleEF	LDT1	69.48	70.92
tblVehicleEF	LDT1	0.21	0.21
tblVehicleEF	LDT1	0.42	0.42
tblVehicleEF	LDT1	2.5100e-003	2.5220e-003
tblVehicleEF	LDT1	3.1400e-003	3.1560e-003
tblVehicleEF	LDT1	2.3120e-003	2.3230e-003
tblVehicleEF	LDT1	2.8870e-003	2.9020e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.44	0.44
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.28	0.28
tblVehicleEF	LDT1	0.71	0.71
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.44	0.44
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.28	0.28
tblVehicleEF	LDT1	0.77	0.77
tblVehicleEF	LDT2	1.09	1.10
tblVehicleEF	LDT2	3.32	3.33
tblVehicleEF	LDT2	328.24	334.99

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

tblVehicleEF	LDT2	72.74	74.24
tblVehicleEF	LDT2	0.13	0.13
tblVehicleEF	LDT2	0.40	0.40
tblVehicleEF	LDT2	1.6160e-003	1.6240e-003
tblVehicleEF	LDT2	2.0410e-003	2.0510e-003
tblVehicleEF	LDT2	1.4890e-003	1.4960e-003
tblVehicleEF	LDT2	1.8770e-003	1.8860e-003
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.25	0.25
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.48	0.48
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.25	0.25
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.52	0.52
tblVehicleEF	LDT2	1.08	1.09
tblVehicleEF	LDT2	2.92	2.93
tblVehicleEF	LDT2	328.08	334.82
tblVehicleEF	LDT2	71.96	73.45
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.37	0.37
tblVehicleEF	LDT2	1.6160e-003	1.6240e-003
tblVehicleEF	LDT2	2.0410e-003	2.0510e-003
tblVehicleEF	LDT2	1.4890e-003	1.4960e-003
tblVehicleEF	LDT2	1.8770e-003	1.8860e-003

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

tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.24	0.24
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.43	0.43
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.24	0.24
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.47	0.47
tblVehicleEF	LDT2	1.10	1.10
tblVehicleEF	LDT2	3.81	3.83
tblVehicleEF	LDT2	327.27	334.00
tblVehicleEF	LDT2	73.72	75.24
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.43	0.43
tblVehicleEF	LDT2	1.6160e-003	1.6240e-003
tblVehicleEF	LDT2	2.0410e-003	2.0510e-003
tblVehicleEF	LDT2	1.4890e-003	1.4960e-003
tblVehicleEF	LDT2	1.8770e-003	1.8860e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.26	0.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.53	0.54
tblVehicleEF	LDT2	0.03	0.03

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tblVehicleEF	LDT2	0.26	0.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.59	0.59
tblVehicleEF	MDV	0.98	0.98
tblVehicleEF	MDV	3.68	3.70
tblVehicleEF	MDV	397.85	405.76
tblVehicleEF	MDV	85.65	87.42
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.43	0.43
tblVehicleEF	MDV	1.6710e-003	1.6780e-003
tblVehicleEF	MDV	2.1430e-003	2.1540e-003
tblVehicleEF	MDV	1.5460e-003	1.5530e-003
tblVehicleEF	MDV	1.9710e-003	1.9810e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.55	0.55
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.60	0.60
tblVehicleEF	MDV	0.97	0.98
tblVehicleEF	MDV	3.24	3.26

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tblVehicleEF	MDV	397.69	405.60
tblVehicleEF	MDV	84.78	86.54
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.40	0.40
tblVehicleEF	MDV	1.6710e-003	1.6780e-003
tblVehicleEF	MDV	2.1430e-003	2.1540e-003
tblVehicleEF	MDV	1.5460e-003	1.5530e-003
tblVehicleEF	MDV	1.9710e-003	1.9810e-003
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.50	0.50
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.54	0.54
tblVehicleEF	MDV	0.98	0.99
tblVehicleEF	MDV	4.24	4.26
tblVehicleEF	MDV	396.88	404.77
tblVehicleEF	MDV	86.76	88.55
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.46	0.46
tblVehicleEF	MDV	1.6710e-003	1.6780e-003
tblVehicleEF	MDV	2.1430e-003	2.1540e-003
tblVehicleEF	MDV	1.5460e-003	1.5530e-003

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tblVehicleEF	MDV	1.9710e-003	1.9810e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.67	0.67
tblVehicleEF	OBUS	9.9000e-005	9.8000e-005
tblVehicleEF	UBUS	4.6000e-005	4.5000e-005
tblVehicleEF	UBUS	4.6000e-005	4.5000e-005
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	5.53
tblVehicleTrips	HS_TL	7.30	5.53
tblVehicleTrips	HW_TL	10.80	5.53
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.91	15.75

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tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	4.09	15.75
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	5.44	15.75
tblVehicleTrips	WD_TR	32.93	0.00
tblWoodstoves	NumberCatalytic	12.05	0.00
tblWoodstoves	NumberNoncatalytic	12.05	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

2.0 Emissions Summary

Humboldt Student Housing Project Mit - Revised - Humboldt County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2023	3.4349	34.5937	28.7393	0.0635	19.8049	1.4255	21.0718	10.1417	1.3115	11.3073	0.0000	6,153.495 9	6,153.495 9	1.9511	0.3080	6,239.269 1
2024	18.9433	18.4210	26.3311	0.0609	2.8080	0.6526	3.4606	0.7553	0.6140	1.3694	0.0000	6,046.462 5	6,046.462 5	0.7186	0.2966	6,152.335 4
Maximum	18.9433	34.5937	28.7393	0.0635	19.8049	1.4255	21.0718	10.1417	1.3115	11.3073	0.0000	6,153.495 9	6,153.495 9	1.9511	0.3080	6,239.269 1

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	lb/day										lb/day					
2023	3.4349	34.5937	28.7393	0.0635	19.8049	1.4255	21.0718	10.1417	1.3115	11.3073	0.0000	6,153.495 9	6,153.495 9	1.9511	0.3080	6,239.269 1
2024	18.9433	18.4210	26.3311	0.0609	2.8080	0.6526	3.4606	0.7553	0.6140	1.3694	0.0000	6,046.462 5	6,046.462 5	0.7186	0.2966	6,152.335 4
Maximum	18.9433	34.5937	28.7393	0.0635	19.8049	1.4255	21.0718	10.1417	1.3115	11.3073	0.0000	6,153.495 9	6,153.495 9	1.9511	0.3080	6,239.269 1

Humboldt Student Housing Project Mit - Revised - Humboldt County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705
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
Mobile	13.1508	20.4781	108.9079	0.1622	16.1573	0.2001	16.3574	4.3147	0.1884	4.5032		16,766.8560	16,766.8560	1.5478	1.1125	17,137.0601
Total	23.2856	20.7075	128.8307	0.1633	16.1573	0.3105	16.4677	4.3147	0.2988	4.6135	0.0000	16,802.7610	16,802.7610	1.5824	1.1125	17,173.8306

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	lb/day										lb/day					
Area	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705
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
Mobile	13.1508	20.4781	108.9079	0.1622	16.1573	0.2001	16.3574	4.3147	0.1884	4.5032		16,766.8560	16,766.8560	1.5478	1.1125	17,137.0601
Total	23.2856	20.7075	128.8307	0.1633	16.1573	0.3105	16.4677	4.3147	0.2988	4.6135	0.0000	16,802.7610	16,802.7610	1.5824	1.1125	17,173.8306

Humboldt Student Housing Project Mit - Revised - Humboldt County, Winter

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	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	3/1/2023	3/28/2023	5	20	
2	Site Preparation	Site Preparation	3/29/2023	4/11/2023	5	10	
3	Grading	Grading	4/12/2023	5/23/2023	5	30	
4	Building Construction	Building Construction	5/24/2023	7/16/2024	5	300	
5	Paving	Paving	7/17/2024	8/13/2024	5	20	
6	Architectural Coating	Architectural Coating	8/14/2024	9/10/2024	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 3.12

Residential Indoor: 399,695; Residential Outdoor: 133,232; Non-Residential Indoor: 191,430; Non-Residential Outdoor: 63,810; Striped Parking Area: 8,328 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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

Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	191.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	285.00	69.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Humboldt Student Housing Project Mit - Revised - Humboldt County, Winter

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0713	0.0000	2.0713	0.3136	0.0000	0.3136			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	2.0713	0.9975	3.0689	0.3136	0.9280	1.2416		3,746.9840	3,746.9840	1.0494		3,773.2183

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	lb/day										lb/day					
Hauling	0.0271	1.7033	0.2767	5.8800e-003	0.1666	0.0140	0.1806	0.0456	0.0134	0.0590		622.0349	622.0349	1.2600e-003	0.0978	651.1978
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
Worker	0.0849	0.0586	0.5161	1.0500e-003	0.1232	7.8000e-004	0.1240	0.0327	7.2000e-004	0.0334		106.5137	106.5137	5.1400e-003	4.6000e-003	108.0122
Total	0.1120	1.7619	0.7928	6.9300e-003	0.2898	0.0148	0.3046	0.0783	0.0141	0.0924		728.5486	728.5486	6.4000e-003	0.1024	759.2100

Humboldt Student Housing Project Mit - Revised - Humboldt County, Winter

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0713	0.0000	2.0713	0.3136	0.0000	0.3136			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	2.0713	0.9975	3.0689	0.3136	0.9280	1.2416	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183

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	lb/day										lb/day					
Hauling	0.0271	1.7033	0.2767	5.8800e-003	0.1666	0.0140	0.1806	0.0456	0.0134	0.0590		622.0349	622.0349	1.2600e-003	0.0978	651.1978
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
Worker	0.0849	0.0586	0.5161	1.0500e-003	0.1232	7.8000e-004	0.1240	0.0327	7.2000e-004	0.0334		106.5137	106.5137	5.1400e-003	4.6000e-003	108.0122
Total	0.1120	1.7619	0.7928	6.9300e-003	0.2898	0.0148	0.3046	0.0783	0.0141	0.0924		728.5486	728.5486	6.4000e-003	0.1024	759.2100

Humboldt Student Housing Project Mit - Revised - Humboldt County, Winter

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	lb/day										lb/day					
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
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
Worker	0.1019	0.0703	0.6193	1.2600e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		127.8164	127.8164	6.1700e-003	5.5200e-003	129.6147
Total	0.1019	0.0703	0.6193	1.2600e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		127.8164	127.8164	6.1700e-003	5.5200e-003	129.6147

Humboldt Student Housing Project Mit - Revised - Humboldt County, Winter

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

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	lb/day										lb/day					
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
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
Worker	0.1019	0.0703	0.6193	1.2600e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		127.8164	127.8164	6.1700e-003	5.5200e-003	129.6147
Total	0.1019	0.0703	0.6193	1.2600e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		127.8164	127.8164	6.1700e-003	5.5200e-003	129.6147

Humboldt Student Housing Project Mit - Revised - Humboldt County, Winter

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

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.2036	1.4245	10.6281	3.6538	1.3105	4.9643		6,011.4777	6,011.4777	1.9442		6,060.0836

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	lb/day										lb/day					
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
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
Worker	0.1132	0.0781	0.6881	1.4000e-003	0.1643	1.0400e-003	0.1653	0.0436	9.6000e-004	0.0445		142.0182	142.0182	6.8500e-003	6.1300e-003	144.0163
Total	0.1132	0.0781	0.6881	1.4000e-003	0.1643	1.0400e-003	0.1653	0.0436	9.6000e-004	0.0445		142.0182	142.0182	6.8500e-003	6.1300e-003	144.0163

Humboldt Student Housing Project Mit - Revised - Humboldt County, Winter

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

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.2036	1.4245	10.6281	3.6538	1.3105	4.9643	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

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	lb/day										lb/day					
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
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
Worker	0.1132	0.0781	0.6881	1.4000e-003	0.1643	1.0400e-003	0.1653	0.0436	9.6000e-004	0.0445		142.0182	142.0182	6.8500e-003	6.1300e-003	144.0163
Total	0.1132	0.0781	0.6881	1.4000e-003	0.1643	1.0400e-003	0.1653	0.0436	9.6000e-004	0.0445		142.0182	142.0182	6.8500e-003	6.1300e-003	144.0163

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

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	lb/day										lb/day					
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
Vendor	0.1438	4.0881	1.2179	0.0147	0.4667	0.0261	0.4928	0.1343	0.0250	0.1593		1,550.7142	1,550.7142	6.6700e-003	0.2206	1,616.6311
Worker	1.6128	1.1135	9.8054	0.0200	2.3412	0.0148	2.3560	0.6210	0.0137	0.6347		2,023.7596	2,023.7596	0.0977	0.0874	2,052.2320
Total	1.7566	5.2016	11.0234	0.0348	2.8079	0.0409	2.8489	0.7553	0.0387	0.7940		3,574.4738	3,574.4738	0.1043	0.3080	3,668.8630

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	lb/day										lb/day					
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
Vendor	0.1438	4.0881	1.2179	0.0147	0.4667	0.0261	0.4928	0.1343	0.0250	0.1593		1,550.7142	1,550.7142	6.6700e-003	0.2206	1,616.6311
Worker	1.6128	1.1135	9.8054	0.0200	2.3412	0.0148	2.3560	0.6210	0.0137	0.6347		2,023.7596	2,023.7596	0.0977	0.0874	2,052.2320
Total	1.7566	5.2016	11.0234	0.0348	2.8079	0.0409	2.8489	0.7553	0.0387	0.7940		3,574.4738	3,574.4738	0.1043	0.3080	3,668.8630

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	lb/day										lb/day					
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
Vendor	0.1391	3.9881	1.1881	0.0145	0.4668	0.0255	0.4923	0.1343	0.0244	0.1588		1,528.7808	1,528.7808	6.3700e-003	0.2163	1,593.3901
Worker	1.5187	0.9891	8.9761	0.0194	2.3412	0.0138	2.3550	0.6210	0.0127	0.6337		1,961.9828	1,961.9828	0.0883	0.0804	1,988.1377
Total	1.6577	4.9772	10.1643	0.0339	2.8080	0.0393	2.8473	0.7553	0.0371	0.7925		3,490.7636	3,490.7636	0.0947	0.2966	3,581.5278

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3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	lb/day										lb/day					
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
Vendor	0.1391	3.9881	1.1881	0.0145	0.4668	0.0255	0.4923	0.1343	0.0244	0.1588		1,528.7808	1,528.7808	6.3700e-003	0.2163	1,593.3901
Worker	1.5187	0.9891	8.9761	0.0194	2.3412	0.0138	2.3550	0.6210	0.0127	0.6337		1,961.9828	1,961.9828	0.0883	0.0804	1,988.1377
Total	1.6577	4.9772	10.1643	0.0339	2.8080	0.0393	2.8473	0.7553	0.0371	0.7925		3,490.7636	3,490.7636	0.0947	0.2966	3,581.5278

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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	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.4087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3969	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

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	lb/day										lb/day					
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
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
Worker	0.0799	0.0521	0.4724	1.0200e-003	0.1232	7.3000e-004	0.1240	0.0327	6.7000e-004	0.0334		103.2623	103.2623	4.6500e-003	4.2300e-003	104.6388
Total	0.0799	0.0521	0.4724	1.0200e-003	0.1232	7.3000e-004	0.1240	0.0327	6.7000e-004	0.0334		103.2623	103.2623	4.6500e-003	4.2300e-003	104.6388

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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	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.4087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3969	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

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	lb/day										lb/day					
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
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
Worker	0.0799	0.0521	0.4724	1.0200e-003	0.1232	7.3000e-004	0.1240	0.0327	6.7000e-004	0.0334		103.2623	103.2623	4.6500e-003	4.2300e-003	104.6388
Total	0.0799	0.0521	0.4724	1.0200e-003	0.1232	7.3000e-004	0.1240	0.0327	6.7000e-004	0.0334		103.2623	103.2623	4.6500e-003	4.2300e-003	104.6388

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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 - 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	lb/day										lb/day					
Archit. Coating	18.4588					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	18.6395	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	lb/day										lb/day					
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
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
Worker	0.3037	0.1978	1.7952	3.8800e-003	0.4682	2.7600e-003	0.4710	0.1242	2.5400e-003	0.1267		392.3966	392.3966	0.0177	0.0161	397.6275
Total	0.3037	0.1978	1.7952	3.8800e-003	0.4682	2.7600e-003	0.4710	0.1242	2.5400e-003	0.1267		392.3966	392.3966	0.0177	0.0161	397.6275

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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 - 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	lb/day										lb/day					
Archit. Coating	18.4588					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	18.6395	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	lb/day										lb/day					
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
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
Worker	0.3037	0.1978	1.7952	3.8800e-003	0.4682	2.7600e-003	0.4710	0.1242	2.5400e-003	0.1267		392.3966	392.3966	0.0177	0.0161	397.6275
Total	0.3037	0.1978	1.7952	3.8800e-003	0.4682	2.7600e-003	0.4710	0.1242	2.5400e-003	0.1267		392.3966	392.3966	0.0177	0.0161	397.6275

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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	lb/day										lb/day					
Mitigated	13.1508	20.4781	108.9079	0.1622	16.1573	0.2001	16.3574	4.3147	0.1884	4.5032		16,766.85 60	16,766.85 60	1.5478	1.1125	17,137.06 01
Unmitigated	13.1508	20.4781	108.9079	0.1622	16.1573	0.2001	16.3574	4.3147	0.1884	4.5032		16,766.85 60	16,766.85 60	1.5478	1.1125	17,137.06 01

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	3,795.75	3,795.75	3795.75	7,640,541	7,640,541
Health Club	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	3,795.75	3,795.75	3,795.75	7,640,541	7,640,541

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
Apartments Mid Rise	5.53	5.53	5.53	42.30	19.60	38.10	100	0	0
Health Club	0.00	0.00	0.00	16.90	64.10	19.00	52	39	9
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842
Health Club	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842
Parking Lot	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Health Club	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
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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Health Club	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
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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	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	lb/day										lb/day					
Mitigated	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705
Unmitigated	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705

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	lb/day										lb/day					
Architectural Coating	2.5286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.0042					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6021	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103		35.9050	35.9050	0.0346		36.7705
Total	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705

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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	lb/day										lb/day					
Architectural Coating	2.5286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.0042					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6021	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103		35.9050	35.9050	0.0346		36.7705
Total	10.1348	0.2294	19.9228	1.0500e-003		0.1103	0.1103		0.1103	0.1103	0.0000	35.9050	35.9050	0.0346	0.0000	36.7705

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	347.00	Space	3.12	138,800.00	0
Health Club	127.62	1000sqft	2.93	127,620.00	0
Apartments Mid Rise	241.00	Dwelling Unit	4.53	197,380.00	964

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	103
Climate Zone	1			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	140.9	CH4 Intensity (lb/MW hr)	0.035	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Emissions factors calculated using data from eGRID, Climate Registry and PG&E Power Content Label

Land Use - residential sqft based on data provided by Cal Poly Humboldt in "Craftsman Student Housing", remainder of sqft assigned to "health club" general land use

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Trip lengths reverted to defaults for "Urban" project location

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

Demolition - sf calculated by estimating aggregate sf of existing structures to be demolished using Google Earth

Grading - no import or export; grading based on land use module

Architectural Coating - default VOC coatings

Vehicle Trips - trip lengths and rates calculated based on

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - no wood stoves or fireplaces

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use - PD states no natural gas will be used for operation of the project - calculations done to account for increase in electricity demand as a result

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - PD states all diesel construction equipment will be Tier 4

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	3,054.10	3,522.74
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	0.31	0.00
tblEnergyUse	T24E	176.92	816.54
tblEnergyUse	T24E	0.56	1.49
tblEnergyUse	T24NG	2,182.40	0.00
tblEnergyUse	T24NG	3.17	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	NumberGas	132.55	0.00
tblFireplaces	NumberNoFireplace	24.10	0.00
tblFireplaces	NumberWood	84.35	0.00
tblLandUse	LandUseSquareFeet	241,000.00	197,380.00

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

tblLandUse	LotAcreage	6.34	4.53
tblLandUse	Population	689.00	964.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.035
tblProjectCharacteristics	CO2IntensityFactor	203.98	140.9
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.90	5.53
tblVehicleTrips	HS_TL	7.10	5.53
tblVehicleTrips	HW_TL	16.80	5.53
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.91	15.75

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

tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	4.09	15.75
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	5.44	15.75
tblVehicleTrips	WD_TR	32.93	0.00
tblWoodstoves	NumberCatalytic	12.05	0.00
tblWoodstoves	NumberNoncatalytic	12.05	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3411	2.4177	2.8570	6.4800e-003	0.4714	0.0964	0.5678	0.1664	0.0900	0.2564	0.0000	581.2887	581.2887	0.0922	0.0227	590.3430
2024	4.8469	1.4022	2.0336	4.6300e-003	0.1931	0.0517	0.2447	0.0522	0.0485	0.1007	0.0000	416.8355	416.8355	0.0516	0.0189	423.7572
Maximum	4.8469	2.4177	2.8570	6.4800e-003	0.4714	0.0964	0.5678	0.1664	0.0900	0.2564	0.0000	581.2887	581.2887	0.0922	0.0227	590.3430

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3411	2.4177	2.8570	6.4800e-003	0.4714	0.0964	0.5678	0.1664	0.0900	0.2564	0.0000	581.2883	581.2883	0.0922	0.0227	590.3427
2024	4.8469	1.4022	2.0336	4.6300e-003	0.1931	0.0517	0.2447	0.0522	0.0485	0.1007	0.0000	416.8352	416.8352	0.0516	0.0189	423.7570
Maximum	4.8469	2.4177	2.8570	6.4800e-003	0.4714	0.0964	0.5678	0.1664	0.0900	0.2564	0.0000	581.2883	581.2883	0.0922	0.0227	590.3427

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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	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2023	5-31-2023	1.0417	1.0417
2	6-1-2023	8-31-2023	0.7335	0.7335
3	9-1-2023	11-30-2023	0.7384	0.7384
4	12-1-2023	2-29-2024	0.7155	0.7155
5	3-1-2024	5-31-2024	0.6960	0.6960
6	6-1-2024	8-31-2024	3.4336	3.4336
7	9-1-2024	9-30-2024	1.6546	1.6546
		Highest	3.4336	3.4336

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	123.3662	123.3662	0.0306	3.5000e-003	125.1760
Mobile	2.3798	3.5152	18.5671	0.0295	2.7625	0.0364	2.7988	0.7416	0.0342	0.7758	0.0000	2,769.2029	2,769.2029	0.2404	0.1761	2,827.6757
Waste						0.0000	0.0000		0.0000	0.0000	170.1653	0.0000	170.1653	10.0565	0.0000	421.5773
Water						0.0000	0.0000		0.0000	0.0000	7.3761	11.2895	18.6657	0.7604	0.0182	43.1021
Total	4.1737	3.5358	20.3601	0.0296	2.7625	0.0463	2.8088	0.7416	0.0442	0.7857	177.5414	2,906.7901	3,084.3316	11.0907	0.1978	3,420.5333

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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	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	123.3662	123.3662	0.0306	3.5000e-003	125.1760
Mobile	2.3798	3.5152	18.5671	0.0295	2.7625	0.0364	2.7988	0.7416	0.0342	0.7758	0.0000	2,769.2029	2,769.2029	0.2404	0.1761	2,827.6757
Waste						0.0000	0.0000		0.0000	0.0000	170.1653	0.0000	170.1653	10.0565	0.0000	421.5773
Water						0.0000	0.0000		0.0000	0.0000	7.3761	11.2895	18.6657	0.7604	0.0182	43.1021
Total	4.1737	3.5358	20.3601	0.0296	2.7625	0.0463	2.8088	0.7416	0.0442	0.7857	177.5414	2,906.7901	3,084.3316	11.0907	0.1978	3,420.5333

	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	3/1/2023	3/28/2023	5	20	
2	Site Preparation	Site Preparation	3/29/2023	4/11/2023	5	10	
3	Grading	Grading	4/12/2023	5/23/2023	5	30	

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4	Building Construction	Building Construction	5/24/2023	7/16/2024	5	300
5	Paving	Paving	7/17/2024	8/13/2024	5	20
6	Architectural Coating	Architectural Coating	8/14/2024	9/10/2024	5	20

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 3.12

Residential Indoor: 399,695; Residential Outdoor: 133,232; Non-Residential Indoor: 191,430; Non-Residential Outdoor: 63,810; Striped Parking Area: 8,328 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

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Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	191.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	285.00	69.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0207	0.0000	0.0207	3.1400e-003	0.0000	3.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301
Total	0.0227	0.2148	0.1964	3.9000e-004	0.0207	9.9800e-003	0.0307	3.1400e-003	9.2800e-003	0.0124	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301

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3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	0.0165	2.7300e-003	6.0000e-005	1.5800e-003	1.4000e-004	1.7200e-003	4.3000e-004	1.3000e-004	5.7000e-004	0.0000	5.6393	5.6393	1.0000e-005	8.9000e-004	5.9037
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.3000e-004	5.0000e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9692	0.9692	4.0000e-005	4.0000e-005	0.9819
Total	1.0600e-003	0.0171	7.7300e-003	7.0000e-005	2.7400e-003	1.5000e-004	2.8800e-003	7.4000e-004	1.4000e-004	8.9000e-004	0.0000	6.6085	6.6085	5.0000e-005	9.3000e-004	6.8856

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					0.0207	0.0000	0.0207	3.1400e-003	0.0000	3.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300
Total	0.0227	0.2148	0.1964	3.9000e-004	0.0207	9.9800e-003	0.0307	3.1400e-003	9.2800e-003	0.0124	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300

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

3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	0.0165	2.7300e-003	6.0000e-005	1.5800e-003	1.4000e-004	1.7200e-003	4.3000e-004	1.3000e-004	5.7000e-004	0.0000	5.6393	5.6393	1.0000e-005	8.9000e-004	5.9037
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.3000e-004	5.0000e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9692	0.9692	4.0000e-005	4.0000e-005	0.9819
Total	1.0600e-003	0.0171	7.7300e-003	7.0000e-005	2.7400e-003	1.5000e-004	2.8800e-003	7.4000e-004	1.4000e-004	8.9000e-004	0.0000	6.6085	6.6085	5.0000e-005	9.3000e-004	6.8856

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606
Total	0.0133	0.1376	0.0912	1.9000e-004	0.0983	6.3300e-003	0.1046	0.0505	5.8200e-003	0.0563	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606

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

3.3 Site Preparation - 2023

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	4.7000e-004	3.2000e-004	3.0000e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5815	0.5815	3.0000e-005	2.0000e-005	0.5891
Total	4.7000e-004	3.2000e-004	3.0000e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5815	0.5815	3.0000e-005	2.0000e-005	0.5891

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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606
Total	0.0133	0.1376	0.0912	1.9000e-004	0.0983	6.3300e-003	0.1046	0.0505	5.8200e-003	0.0563	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606

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3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.2000e-004	3.0000e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5815	0.5815	3.0000e-005	2.0000e-005	0.5891
Total	4.7000e-004	3.2000e-004	3.0000e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5815	0.5815	3.0000e-005	2.0000e-005	0.5891

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5177	0.4208	9.3000e-004		0.0214	0.0214		0.0197	0.0197	0.0000	81.8028	81.8028	0.0265	0.0000	82.4642
Total	0.0498	0.5177	0.4208	9.3000e-004	0.1381	0.0214	0.1594	0.0548	0.0197	0.0745	0.0000	81.8028	81.8028	0.0265	0.0000	82.4642

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3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.0600e-003	0.0100	2.0000e-005	2.3100e-003	2.0000e-005	2.3300e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.9384	1.9384	9.0000e-005	8.0000e-005	1.9638
Total	1.5600e-003	1.0600e-003	0.0100	2.0000e-005	2.3100e-003	2.0000e-005	2.3300e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.9384	1.9384	9.0000e-005	8.0000e-005	1.9638

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					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5177	0.4208	9.3000e-004		0.0214	0.0214		0.0197	0.0197	0.0000	81.8027	81.8027	0.0265	0.0000	82.4641
Total	0.0498	0.5177	0.4208	9.3000e-004	0.1381	0.0214	0.1594	0.0548	0.0197	0.0745	0.0000	81.8027	81.8027	0.0265	0.0000	82.4641

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

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.0600e-003	0.0100	2.0000e-005	2.3100e-003	2.0000e-005	2.3300e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.9384	1.9384	9.0000e-005	8.0000e-005	1.9638
Total	1.5600e-003	1.0600e-003	0.0100	2.0000e-005	2.3100e-003	2.0000e-005	2.3300e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.9384	1.9384	9.0000e-005	8.0000e-005	1.9638

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1243	1.1364	1.2833	2.1300e-003		0.0553	0.0553		0.0520	0.0520	0.0000	183.1258	183.1258	0.0436	0.0000	184.2148
Total	0.1243	1.1364	1.2833	2.1300e-003		0.0553	0.0553		0.0520	0.0520	0.0000	183.1258	183.1258	0.0436	0.0000	184.2148

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3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0112	0.3133	0.0945	1.1600e-003	0.0350	2.0600e-003	0.0371	0.0102	1.9700e-003	0.0121	0.0000	111.0351	111.0351	4.9000e-004	0.0158	115.7505
Worker	0.1168	0.0793	0.7502	1.5900e-003	0.1736	1.1700e-003	0.1748	0.0463	1.0800e-003	0.0474	0.0000	145.4791	145.4791	6.6300e-003	5.8400e-003	147.3843
Total	0.1280	0.3926	0.8446	2.7500e-003	0.2086	3.2300e-003	0.2119	0.0564	3.0500e-003	0.0595	0.0000	256.5142	256.5142	7.1200e-003	0.0216	263.1348

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	0.1243	1.1364	1.2833	2.1300e-003		0.0553	0.0553		0.0520	0.0520	0.0000	183.1255	183.1255	0.0436	0.0000	184.2146
Total	0.1243	1.1364	1.2833	2.1300e-003		0.0553	0.0553		0.0520	0.0520	0.0000	183.1255	183.1255	0.0436	0.0000	184.2146

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

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0112	0.3133	0.0945	1.1600e-003	0.0350	2.0600e-003	0.0371	0.0102	1.9700e-003	0.0121	0.0000	111.0351	111.0351	4.9000e-004	0.0158	115.7505
Worker	0.1168	0.0793	0.7502	1.5900e-003	0.1736	1.1700e-003	0.1748	0.0463	1.0800e-003	0.0474	0.0000	145.4791	145.4791	6.6300e-003	5.8400e-003	147.3843
Total	0.1280	0.3926	0.8446	2.7500e-003	0.2086	3.2300e-003	0.2119	0.0564	3.0500e-003	0.0595	0.0000	256.5142	256.5142	7.1200e-003	0.0216	263.1348

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1045	0.9545	1.1478	1.9100e-003		0.0435	0.0435		0.0410	0.0410	0.0000	164.6129	164.6129	0.0389	0.0000	165.5860
Total	0.1045	0.9545	1.1478	1.9100e-003		0.0435	0.0435		0.0410	0.0410	0.0000	164.6129	164.6129	0.0389	0.0000	165.5860

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

3.5 Building Construction - 2024

Unmitigated Construction 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	9.7300e-003	0.2746	0.0827	1.0300e-003	0.0315	1.8100e-003	0.0333	9.1300e-003	1.7300e-003	0.0109	0.0000	98.3760	98.3760	4.2000e-004	0.0139	102.5298
Worker	0.0987	0.0633	0.6167	1.3800e-003	0.1560	9.8000e-004	0.1570	0.0416	9.0000e-004	0.0425	0.0000	126.7566	126.7566	5.3900e-003	4.8300e-003	128.3298
Total	0.1084	0.3380	0.6994	2.4100e-003	0.1875	2.7900e-003	0.1903	0.0507	2.6300e-003	0.0534	0.0000	225.1326	225.1326	5.8100e-003	0.0187	230.8597

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	0.1045	0.9545	1.1478	1.9100e-003		0.0435	0.0435		0.0410	0.0410	0.0000	164.6127	164.6127	0.0389	0.0000	165.5858
Total	0.1045	0.9545	1.1478	1.9100e-003		0.0435	0.0435		0.0410	0.0410	0.0000	164.6127	164.6127	0.0389	0.0000	165.5858

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

3.5 Building Construction - 2024

Mitigated Construction 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	9.7300e-003	0.2746	0.0827	1.0300e-003	0.0315	1.8100e-003	0.0333	9.1300e-003	1.7300e-003	0.0109	0.0000	98.3760	98.3760	4.2000e-004	0.0139	102.5298
Worker	0.0987	0.0633	0.6167	1.3800e-003	0.1560	9.8000e-004	0.1570	0.0416	9.0000e-004	0.0425	0.0000	126.7566	126.7566	5.3900e-003	4.8300e-003	128.3298
Total	0.1084	0.3380	0.6994	2.4100e-003	0.1875	2.7900e-003	0.1903	0.0507	2.6300e-003	0.0534	0.0000	225.1326	225.1326	5.8100e-003	0.0187	230.8597

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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	4.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0140	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885

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3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	4.7000e-004	4.5700e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9396	0.9396	4.0000e-005	4.0000e-005	0.9513
Total	7.3000e-004	4.7000e-004	4.5700e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9396	0.9396	4.0000e-005	4.0000e-005	0.9513

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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	4.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0140	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884

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3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	4.7000e-004	4.5700e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9396	0.9396	4.0000e-005	4.0000e-005	0.9513
Total	7.3000e-004	4.7000e-004	4.5700e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9396	0.9396	4.0000e-005	4.0000e-005	0.9513

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	4.6147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	4.6165	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569

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3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7800e-003	1.7800e-003	0.0174	4.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	3.5706	3.5706	1.5000e-004	1.4000e-004	3.6149
Total	2.7800e-003	1.7800e-003	0.0174	4.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	3.5706	3.5706	1.5000e-004	1.4000e-004	3.6149

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	4.6147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	4.6165	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568

Humboldt Student Housing Project Unmit. - Humboldt County, Annual

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

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7800e-003	1.7800e-003	0.0174	4.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	3.5706	3.5706	1.5000e-004	1.4000e-004	3.6149
Total	2.7800e-003	1.7800e-003	0.0174	4.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	3.5706	3.5706	1.5000e-004	1.4000e-004	3.6149

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	2.3798	3.5152	18.5671	0.0295	2.7625	0.0364	2.7988	0.7416	0.0342	0.7758	0.0000	2,769.2029	2,769.2029	0.2404	0.1761	2,827.6757
Unmitigated	2.3798	3.5152	18.5671	0.0295	2.7625	0.0364	2.7988	0.7416	0.0342	0.7758	0.0000	2,769.2029	2,769.2029	0.2404	0.1761	2,827.6757

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	3,795.75	3,795.75	3,795.75	7,640,541	7,640,541
Health Club	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	3,795.75	3,795.75	3,795.75	7,640,541	7,640,541

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
Apartments Mid Rise	5.53	5.53	5.53	42.30	19.60	38.10	100	0	0
Health Club	0.00	0.00	0.00	16.90	64.10	19.00	52	39	9
Parking Lot	0.00	0.00	0.00	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
Apartments Mid Rise	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842
Health Club	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842

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

Parking Lot	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842
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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	123.3662	123.3662	0.0306	3.5000e-003	125.1760
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	123.3662	123.3662	0.0306	3.5000e-003	125.1760
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Humboldt Student Housing Project Unmit. - Humboldt County, Annual

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			
Apartments Mid Rise	1.22445e+006	78.2563	0.0194	2.2200e-003	79.4043
Health Club	657243	42.0052	0.0104	1.1900e-003	42.6214
Parking Lot	48580	3.1048	7.7000e-004	9.0000e-005	3.1504
Total		123.3662	0.0306	3.5000e-003	125.1760

Humboldt Student Housing Project Unmit. - Humboldt County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.22445e+006	78.2563	0.0194	2.2200e-003	79.4043
Health Club	657243	42.0052	0.0104	1.1900e-003	42.6214
Parking Lot	48580	3.1048	7.7000e-004	9.0000e-005	3.1504
Total		123.3662	0.0306	3.5000e-003	125.1760

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	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022
Unmitigated	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022

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	0.4615					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0542	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022
Total	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4615					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0542	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022
Total	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022

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	18.6657	0.7604	0.0182	43.1021
Unmitigated	18.6657	0.7604	0.0182	43.1021

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	15.7021 / 9.89916	12.6261	0.5136	0.0123	29.1298
Health Club	7.54785 / 4.6261	6.0396	0.2469	5.9100e-003	13.9723
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		18.6657	0.7604	0.0182	43.1021

Humboldt Student Housing Project Unmit. - Humboldt County, Annual

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			
Apartments Mid Rise	15.7021 / 9.89916	12.6261	0.5136	0.0123	29.1298
Health Club	7.54785 / 4.6261	6.0396	0.2469	5.9100e-003	13.9723
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		18.6657	0.7604	0.0182	43.1021

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	170.1653	10.0565	0.0000	421.5773
Unmitigated	170.1653	10.0565	0.0000	421.5773

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	110.86	22.5036	1.3299	0.0000	55.7517
Health Club	727.43	147.6617	8.7266	0.0000	365.8257
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		170.1653	10.0565	0.0000	421.5773

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	110.86	22.5036	1.3299	0.0000	55.7517
Health Club	727.43	147.6617	8.7266	0.0000	365.8257
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		170.1653	10.0565	0.0000	421.5773

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

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

11.0 Vegetation

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

**Humboldt Student Housing Project Mit - Revised
Humboldt County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	347.00	Space	3.12	138,800.00	0
Health Club	127.62	1000sqft	2.93	127,620.00	0
Apartments Mid Rise	241.00	Dwelling Unit	4.53	197,380.00	964

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	103
Climate Zone	1			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	140.9	CH4 Intensity (lb/MW hr)	0.035	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Emissions factors calculated using data from eGRID, Climate Registry and PG&E Power Content Label

Land Use - residential sqft based on data provided by Cal Poly Humboldt in "Craftsman Student Housing", remainder of sqft assigned to "health club" general land use

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Worker and vendor trips reverted to default values for "urban" project location

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

Demolition - sf calculated by estimating aggregate sf of existing structures to be demolished using Google Earth

Grading - no import or export; grading based on land use module

Architectural Coating - mitigated VOC coatings

Vehicle Trips - trip lengths and rates calculated based on

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - no wood stoves or fireplaces

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use - PD states no natural gas will be used for operation of the project - calculations done to account for increase in electricity demand as a result

Water And Wastewater -

Solid Waste -

Sequestration -

Construction Off-road Equipment Mitigation - PD states all diesel construction equipment will be Tier 4

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblEnergyUse	NT24E	3,054.10	3,522.74
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	0.31	0.00
tblEnergyUse	T24E	176.92	816.54
tblEnergyUse	T24E	0.56	1.49
tblEnergyUse	T24NG	2,182.40	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

tblEnergyUse	T24NG	3.17	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	NumberGas	132.55	0.00
tblFireplaces	NumberNoFireplace	24.10	0.00
tblFireplaces	NumberWood	84.35	0.00
tblLandUse	LandUseSquareFeet	241,000.00	197,380.00
tblLandUse	LotAcreage	6.34	4.53
tblLandUse	Population	689.00	964.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.035
tblProjectCharacteristics	CO2IntensityFactor	203.98	140.9
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	VendorTripLength	6.60	7.30
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblTripsAndVMT	WorkerTripLength	16.80	10.80
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	DV_TP	11.00	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

tblVehicleTrips	HO_TL	7.90	5.53
tblVehicleTrips	HS_TL	7.10	5.53
tblVehicleTrips	HW_TL	16.80	5.53
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.91	15.75
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	4.09	15.75
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	5.44	15.75
tblVehicleTrips	WD_TR	32.93	0.00
tblWoodstoves	NumberCatalytic	12.05	0.00
tblWoodstoves	NumberNoncatalytic	12.05	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3411	2.4177	2.8570	6.4800e-003	0.4714	0.0964	0.5678	0.1664	0.0900	0.2564	0.0000	581.2887	581.2887	0.0922	0.0227	590.3430
2024	0.4168	1.4022	2.0336	4.6300e-003	0.1931	0.0517	0.2447	0.0522	0.0485	0.1007	0.0000	416.8355	416.8355	0.0516	0.0189	423.7572
Maximum	0.4168	2.4177	2.8570	6.4800e-003	0.4714	0.0964	0.5678	0.1664	0.0900	0.2564	0.0000	581.2887	581.2887	0.0922	0.0227	590.3430

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3411	2.4177	2.8570	6.4800e-003	0.4714	0.0964	0.5678	0.1664	0.0900	0.2564	0.0000	581.2883	581.2883	0.0922	0.0227	590.3427
2024	0.4168	1.4022	2.0336	4.6300e-003	0.1931	0.0517	0.2447	0.0522	0.0485	0.1007	0.0000	416.8352	416.8352	0.0516	0.0189	423.7570
Maximum	0.4168	2.4177	2.8570	6.4800e-003	0.4714	0.0964	0.5678	0.1664	0.0900	0.2564	0.0000	581.2883	581.2883	0.0922	0.0227	590.3427

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2023	5-31-2023	1.0417	1.0417
2	6-1-2023	8-31-2023	0.7335	0.7335
3	9-1-2023	11-30-2023	0.7384	0.7384
4	12-1-2023	2-29-2024	0.7155	0.7155
5	3-1-2024	5-31-2024	0.6960	0.6960
6	6-1-2024	8-31-2024	0.5856	0.5856
7	9-1-2024	9-30-2024	0.0724	0.0724
		Highest	1.0417	1.0417

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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	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	123.3662	123.3662	0.0306	3.5000e-003	125.1760
Mobile	2.3798	3.5152	18.5671	0.0295	2.7625	0.0364	2.7988	0.7416	0.0342	0.7758	0.0000	2,769.2029	2,769.2029	0.2404	0.1761	2,827.6757
Waste						0.0000	0.0000		0.0000	0.0000	170.1653	0.0000	170.1653	10.0565	0.0000	421.5773
Water						0.0000	0.0000		0.0000	0.0000	7.3761	11.2895	18.6657	0.7604	0.0182	43.1021
Total	4.1737	3.5358	20.3601	0.0296	2.7625	0.0463	2.8088	0.7416	0.0442	0.7857	177.5414	2,906.7901	3,084.3316	11.0907	0.1978	3,420.5333

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	123.3662	123.3662	0.0306	3.5000e-003	125.1760
Mobile	2.3798	3.5152	18.5671	0.0295	2.7625	0.0364	2.7988	0.7416	0.0342	0.7758	0.0000	2,769.2029	2,769.2029	0.2404	0.1761	2,827.6757
Waste						0.0000	0.0000		0.0000	0.0000	170.1653	0.0000	170.1653	10.0565	0.0000	421.5773
Water						0.0000	0.0000		0.0000	0.0000	7.3761	11.2895	18.6657	0.7604	0.0182	43.1021
Total	4.1737	3.5358	20.3601	0.0296	2.7625	0.0463	2.8088	0.7416	0.0442	0.7857	177.5414	2,906.7901	3,084.3316	11.0907	0.1978	3,420.5333

	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	3/1/2023	3/28/2023	5	20	
2	Site Preparation	Site Preparation	3/29/2023	4/11/2023	5	10	
3	Grading	Grading	4/12/2023	5/23/2023	5	30	

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4	Building Construction	Building Construction	5/24/2023	7/16/2024	5	300
5	Paving	Paving	7/17/2024	8/13/2024	5	20
6	Architectural Coating	Architectural Coating	8/14/2024	9/10/2024	5	20

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 3.12

Residential Indoor: 399,695; Residential Outdoor: 133,232; Non-Residential Indoor: 191,430; Non-Residential Outdoor: 63,810; Striped Parking Area: 8,328 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

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Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	191.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	285.00	69.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0207	0.0000	0.0207	3.1400e-003	0.0000	3.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301
Total	0.0227	0.2148	0.1964	3.9000e-004	0.0207	9.9800e-003	0.0307	3.1400e-003	9.2800e-003	0.0124	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301

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3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	0.0165	2.7300e-003	6.0000e-005	1.5800e-003	1.4000e-004	1.7200e-003	4.3000e-004	1.3000e-004	5.7000e-004	0.0000	5.6393	5.6393	1.0000e-005	8.9000e-004	5.9037
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.3000e-004	5.0000e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9692	0.9692	4.0000e-005	4.0000e-005	0.9819
Total	1.0600e-003	0.0171	7.7300e-003	7.0000e-005	2.7400e-003	1.5000e-004	2.8800e-003	7.4000e-004	1.4000e-004	8.9000e-004	0.0000	6.6085	6.6085	5.0000e-005	9.3000e-004	6.8856

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					0.0207	0.0000	0.0207	3.1400e-003	0.0000	3.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300
Total	0.0227	0.2148	0.1964	3.9000e-004	0.0207	9.9800e-003	0.0307	3.1400e-003	9.2800e-003	0.0124	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300

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3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	0.0165	2.7300e-003	6.0000e-005	1.5800e-003	1.4000e-004	1.7200e-003	4.3000e-004	1.3000e-004	5.7000e-004	0.0000	5.6393	5.6393	1.0000e-005	8.9000e-004	5.9037
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.3000e-004	5.0000e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9692	0.9692	4.0000e-005	4.0000e-005	0.9819
Total	1.0600e-003	0.0171	7.7300e-003	7.0000e-005	2.7400e-003	1.5000e-004	2.8800e-003	7.4000e-004	1.4000e-004	8.9000e-004	0.0000	6.6085	6.6085	5.0000e-005	9.3000e-004	6.8856

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606
Total	0.0133	0.1376	0.0912	1.9000e-004	0.0983	6.3300e-003	0.1046	0.0505	5.8200e-003	0.0563	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606

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3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.2000e-004	3.0000e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5815	0.5815	3.0000e-005	2.0000e-005	0.5891
Total	4.7000e-004	3.2000e-004	3.0000e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5815	0.5815	3.0000e-005	2.0000e-005	0.5891

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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606
Total	0.0133	0.1376	0.0912	1.9000e-004	0.0983	6.3300e-003	0.1046	0.0505	5.8200e-003	0.0563	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606

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3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.2000e-004	3.0000e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5815	0.5815	3.0000e-005	2.0000e-005	0.5891
Total	4.7000e-004	3.2000e-004	3.0000e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5815	0.5815	3.0000e-005	2.0000e-005	0.5891

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5177	0.4208	9.3000e-004		0.0214	0.0214		0.0197	0.0197	0.0000	81.8028	81.8028	0.0265	0.0000	82.4642
Total	0.0498	0.5177	0.4208	9.3000e-004	0.1381	0.0214	0.1594	0.0548	0.0197	0.0745	0.0000	81.8028	81.8028	0.0265	0.0000	82.4642

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3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.0600e-003	0.0100	2.0000e-005	2.3100e-003	2.0000e-005	2.3300e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.9384	1.9384	9.0000e-005	8.0000e-005	1.9638
Total	1.5600e-003	1.0600e-003	0.0100	2.0000e-005	2.3100e-003	2.0000e-005	2.3300e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.9384	1.9384	9.0000e-005	8.0000e-005	1.9638

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					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5177	0.4208	9.3000e-004		0.0214	0.0214		0.0197	0.0197	0.0000	81.8027	81.8027	0.0265	0.0000	82.4641
Total	0.0498	0.5177	0.4208	9.3000e-004	0.1381	0.0214	0.1594	0.0548	0.0197	0.0745	0.0000	81.8027	81.8027	0.0265	0.0000	82.4641

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3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.0600e-003	0.0100	2.0000e-005	2.3100e-003	2.0000e-005	2.3300e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.9384	1.9384	9.0000e-005	8.0000e-005	1.9638
Total	1.5600e-003	1.0600e-003	0.0100	2.0000e-005	2.3100e-003	2.0000e-005	2.3300e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.9384	1.9384	9.0000e-005	8.0000e-005	1.9638

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1243	1.1364	1.2833	2.1300e-003		0.0553	0.0553		0.0520	0.0520	0.0000	183.1258	183.1258	0.0436	0.0000	184.2148
Total	0.1243	1.1364	1.2833	2.1300e-003		0.0553	0.0553		0.0520	0.0520	0.0000	183.1258	183.1258	0.0436	0.0000	184.2148

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3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0112	0.3133	0.0945	1.1600e-003	0.0350	2.0600e-003	0.0371	0.0102	1.9700e-003	0.0121	0.0000	111.0351	111.0351	4.9000e-004	0.0158	115.7505
Worker	0.1168	0.0793	0.7502	1.5900e-003	0.1736	1.1700e-003	0.1748	0.0463	1.0800e-003	0.0474	0.0000	145.4791	145.4791	6.6300e-003	5.8400e-003	147.3843
Total	0.1280	0.3926	0.8446	2.7500e-003	0.2086	3.2300e-003	0.2119	0.0564	3.0500e-003	0.0595	0.0000	256.5142	256.5142	7.1200e-003	0.0216	263.1348

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	0.1243	1.1364	1.2833	2.1300e-003		0.0553	0.0553		0.0520	0.0520	0.0000	183.1255	183.1255	0.0436	0.0000	184.2146
Total	0.1243	1.1364	1.2833	2.1300e-003		0.0553	0.0553		0.0520	0.0520	0.0000	183.1255	183.1255	0.0436	0.0000	184.2146

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3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0112	0.3133	0.0945	1.1600e-003	0.0350	2.0600e-003	0.0371	0.0102	1.9700e-003	0.0121	0.0000	111.0351	111.0351	4.9000e-004	0.0158	115.7505
Worker	0.1168	0.0793	0.7502	1.5900e-003	0.1736	1.1700e-003	0.1748	0.0463	1.0800e-003	0.0474	0.0000	145.4791	145.4791	6.6300e-003	5.8400e-003	147.3843
Total	0.1280	0.3926	0.8446	2.7500e-003	0.2086	3.2300e-003	0.2119	0.0564	3.0500e-003	0.0595	0.0000	256.5142	256.5142	7.1200e-003	0.0216	263.1348

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1045	0.9545	1.1478	1.9100e-003		0.0435	0.0435		0.0410	0.0410	0.0000	164.6129	164.6129	0.0389	0.0000	165.5860
Total	0.1045	0.9545	1.1478	1.9100e-003		0.0435	0.0435		0.0410	0.0410	0.0000	164.6129	164.6129	0.0389	0.0000	165.5860

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3.5 Building Construction - 2024

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	9.7300e-003	0.2746	0.0827	1.0300e-003	0.0315	1.8100e-003	0.0333	9.1300e-003	1.7300e-003	0.0109	0.0000	98.3760	98.3760	4.2000e-004	0.0139	102.5298
Worker	0.0987	0.0633	0.6167	1.3800e-003	0.1560	9.8000e-004	0.1570	0.0416	9.0000e-004	0.0425	0.0000	126.7566	126.7566	5.3900e-003	4.8300e-003	128.3298
Total	0.1084	0.3380	0.6994	2.4100e-003	0.1875	2.7900e-003	0.1903	0.0507	2.6300e-003	0.0534	0.0000	225.1326	225.1326	5.8100e-003	0.0187	230.8597

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	0.1045	0.9545	1.1478	1.9100e-003		0.0435	0.0435		0.0410	0.0410	0.0000	164.6127	164.6127	0.0389	0.0000	165.5858
Total	0.1045	0.9545	1.1478	1.9100e-003		0.0435	0.0435		0.0410	0.0410	0.0000	164.6127	164.6127	0.0389	0.0000	165.5858

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3.5 Building Construction - 2024

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	9.7300e-003	0.2746	0.0827	1.0300e-003	0.0315	1.8100e-003	0.0333	9.1300e-003	1.7300e-003	0.0109	0.0000	98.3760	98.3760	4.2000e-004	0.0139	102.5298
Worker	0.0987	0.0633	0.6167	1.3800e-003	0.1560	9.8000e-004	0.1570	0.0416	9.0000e-004	0.0425	0.0000	126.7566	126.7566	5.3900e-003	4.8300e-003	128.3298
Total	0.1084	0.3380	0.6994	2.4100e-003	0.1875	2.7900e-003	0.1903	0.0507	2.6300e-003	0.0534	0.0000	225.1326	225.1326	5.8100e-003	0.0187	230.8597

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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	4.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0140	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885

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3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	4.7000e-004	4.5700e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9396	0.9396	4.0000e-005	4.0000e-005	0.9513
Total	7.3000e-004	4.7000e-004	4.5700e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9396	0.9396	4.0000e-005	4.0000e-005	0.9513

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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	4.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0140	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884

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3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	4.7000e-004	4.5700e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9396	0.9396	4.0000e-005	4.0000e-005	0.9513
Total	7.3000e-004	4.7000e-004	4.5700e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9396	0.9396	4.0000e-005	4.0000e-005	0.9513

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	0.1846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	0.1864	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569

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3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7800e-003	1.7800e-003	0.0174	4.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	3.5706	3.5706	1.5000e-004	1.4000e-004	3.6149
Total	2.7800e-003	1.7800e-003	0.0174	4.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	3.5706	3.5706	1.5000e-004	1.4000e-004	3.6149

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	0.1846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	0.1864	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568

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3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7800e-003	1.7800e-003	0.0174	4.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	3.5706	3.5706	1.5000e-004	1.4000e-004	3.6149
Total	2.7800e-003	1.7800e-003	0.0174	4.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	3.5706	3.5706	1.5000e-004	1.4000e-004	3.6149

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3798	3.5152	18.5671	0.0295	2.7625	0.0364	2.7988	0.7416	0.0342	0.7758	0.0000	2,769.2029	2,769.2029	0.2404	0.1761	2,827.6757
Unmitigated	2.3798	3.5152	18.5671	0.0295	2.7625	0.0364	2.7988	0.7416	0.0342	0.7758	0.0000	2,769.2029	2,769.2029	0.2404	0.1761	2,827.6757

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	3,795.75	3,795.75	3,795.75	7,640,541	7,640,541
Health Club	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	3,795.75	3,795.75	3,795.75	7,640,541	7,640,541

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
Apartments Mid Rise	5.53	5.53	5.53	42.30	19.60	38.10	100	0	0
Health Club	0.00	0.00	0.00	16.90	64.10	19.00	52	39	9
Parking Lot	0.00	0.00	0.00	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
Apartments Mid Rise	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842
Health Club	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842

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Parking Lot	0.451794	0.068066	0.207146	0.151773	0.054277	0.010863	0.006698	0.008829	0.000983	0.000219	0.034041	0.001468	0.003842
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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	123.3662	123.3662	0.0306	3.5000e-003	125.1760
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	123.3662	123.3662	0.0306	3.5000e-003	125.1760
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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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			
Apartments Mid Rise	1.22445e+006	78.2563	0.0194	2.2200e-003	79.4043
Health Club	657243	42.0052	0.0104	1.1900e-003	42.6214
Parking Lot	48580	3.1048	7.7000e-004	9.0000e-005	3.1504
Total		123.3662	0.0306	3.5000e-003	125.1760

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.22445e+006	78.2563	0.0194	2.2200e-003	79.4043
Health Club	657243	42.0052	0.0104	1.1900e-003	42.6214
Parking Lot	48580	3.1048	7.7000e-004	9.0000e-005	3.1504
Total		123.3662	0.0306	3.5000e-003	125.1760

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	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022
Unmitigated	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022

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	0.4615					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0542	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022
Total	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4615					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0542	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022
Total	1.7939	0.0207	1.7931	9.0000e-005		9.9300e-003	9.9300e-003		9.9300e-003	9.9300e-003	0.0000	2.9315	2.9315	2.8300e-003	0.0000	3.0022

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.6657	0.7604	0.0182	43.1021
Unmitigated	18.6657	0.7604	0.0182	43.1021

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	15.7021 / 9.89916	12.6261	0.5136	0.0123	29.1298
Health Club	7.54785 / 4.6261	6.0396	0.2469	5.9100e-003	13.9723
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		18.6657	0.7604	0.0182	43.1021

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	15.7021 / 9.89916	12.6261	0.5136	0.0123	29.1298
Health Club	7.54785 / 4.6261	6.0396	0.2469	5.9100e-003	13.9723
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		18.6657	0.7604	0.0182	43.1021

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	170.1653	10.0565	0.0000	421.5773
Unmitigated	170.1653	10.0565	0.0000	421.5773

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	110.86	22.5036	1.3299	0.0000	55.7517
Health Club	727.43	147.6617	8.7266	0.0000	365.8257
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		170.1653	10.0565	0.0000	421.5773

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	110.86	22.5036	1.3299	0.0000	55.7517
Health Club	727.43	147.6617	8.7266	0.0000	365.8257
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		170.1653	10.0565	0.0000	421.5773

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
