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Fairview Specific Plan - Alameda County, Winter

**Fairview Specific Plan  
Alameda County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	15.00	Dwelling Unit	4.87	27,000.00	43

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	5			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Estimated 300 new housing units by 2040 = average of 15 units/year

Construction Phase - Default construction schedule scaled to one calendar year.

Demolition - Assumed 1,500 sf to be demolished per housing site = 22,500 sf for 15 sites

Woodstoves - No fireplaces.

Construction Off-road Equipment Mitigation - BAAQMD basic construction measures

Fairview Specific Plan - Alameda County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	16.00
tblConstructionPhase	NumDays	230.00	199.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	8.00	7.00
tblConstructionPhase	NumDays	18.00	16.00
tblConstructionPhase	NumDays	5.00	4.00
tblConstructionPhase	PhaseEndDate	3/19/2021	12/30/2021
tblConstructionPhase	PhaseEndDate	1/28/2021	11/16/2021
tblConstructionPhase	PhaseEndDate	2/24/2020	1/26/2021
tblConstructionPhase	PhaseEndDate	3/12/2020	2/10/2021
tblConstructionPhase	PhaseEndDate	2/23/2021	12/8/2021
tblConstructionPhase	PhaseEndDate	3/2/2020	2/1/2021
tblConstructionPhase	PhaseStartDate	2/24/2021	12/9/2021
tblConstructionPhase	PhaseStartDate	3/13/2020	2/11/2021
tblConstructionPhase	PhaseStartDate	1/28/2020	1/4/2021
tblConstructionPhase	PhaseStartDate	3/3/2020	2/2/2021
tblConstructionPhase	PhaseStartDate	1/29/2021	11/17/2021
tblConstructionPhase	PhaseStartDate	2/25/2020	1/27/2021
tblFireplaces	NumberGas	3.75	0.00
tblFireplaces	NumberWood	6.45	0.00
tblGrading	AcresOfGrading	3.50	4.00
tblWoodstoves	NumberCatalytic	0.60	0.00
tblWoodstoves	NumberNoncatalytic	0.60	0.00

**2.0 Emissions Summary**

Fairview Specific Plan - Alameda County, Winter

**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					
2021	23.9804	40.5421	22.2474	0.0446	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	4,353.873 4	4,353.873 4	1.1952	0.0000	4,380.957 7
<b>Maximum</b>	<b>23.9804</b>	<b>40.5421</b>	<b>22.2474</b>	<b>0.0446</b>	<b>18.2141</b>	<b>2.0454</b>	<b>20.2595</b>	<b>9.9699</b>	<b>1.8818</b>	<b>11.8517</b>	<b>0.0000</b>	<b>4,353.873 4</b>	<b>4,353.873 4</b>	<b>1.1952</b>	<b>0.0000</b>	<b>4,380.957 7</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	23.9804	40.5420	22.2474	0.0446	8.2777	2.0454	10.3231	4.5080	1.8818	6.3898	0.0000	4,353.873 4	4,353.873 4	1.1952	0.0000	4,380.957 7
<b>Maximum</b>	<b>23.9804</b>	<b>40.5420</b>	<b>22.2474</b>	<b>0.0446</b>	<b>8.2777</b>	<b>2.0454</b>	<b>10.3231</b>	<b>4.5080</b>	<b>1.8818</b>	<b>6.3898</b>	<b>0.0000</b>	<b>4,353.873 4</b>	<b>4,353.873 4</b>	<b>1.1952</b>	<b>0.0000</b>	<b>4,380.957 7</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>54.55</b>	<b>0.00</b>	<b>49.05</b>	<b>54.78</b>	<b>0.00</b>	<b>46.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Fairview Specific Plan - Alameda County, Winter

**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	0.7194	0.0143	1.2389	7.0000e-005		6.8400e-003	6.8400e-003		6.8400e-003	6.8400e-003	0.0000	2.2283	2.2283	2.1500e-003	0.0000	2.2820
Energy	0.0188	0.1603	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130		204.6274	204.6274	3.9200e-003	3.7500e-003	205.8434
Mobile	0.2176	1.5021	2.5104	9.0400e-003	0.7325	8.7400e-003	0.7412	0.1963	8.2100e-003	0.2045		919.0674	919.0674	0.0416		920.1063
<b>Total</b>	<b>0.9557</b>	<b>1.6767</b>	<b>3.8175</b>	<b>0.0101</b>	<b>0.7325</b>	<b>0.0285</b>	<b>0.7610</b>	<b>0.1963</b>	<b>0.0280</b>	<b>0.2243</b>	<b>0.0000</b>	<b>1,125.9230</b>	<b>1,125.9230</b>	<b>0.0476</b>	<b>3.7500e-003</b>	<b>1,128.2317</b>

**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	0.7194	0.0143	1.2389	7.0000e-005		6.8400e-003	6.8400e-003		6.8400e-003	6.8400e-003	0.0000	2.2283	2.2283	2.1500e-003	0.0000	2.2820
Energy	0.0188	0.1603	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130		204.6274	204.6274	3.9200e-003	3.7500e-003	205.8434
Mobile	0.2176	1.5021	2.5104	9.0400e-003	0.7325	8.7400e-003	0.7412	0.1963	8.2100e-003	0.2045		919.0674	919.0674	0.0416		920.1063
<b>Total</b>	<b>0.9557</b>	<b>1.6767</b>	<b>3.8175</b>	<b>0.0101</b>	<b>0.7325</b>	<b>0.0285</b>	<b>0.7610</b>	<b>0.1963</b>	<b>0.0280</b>	<b>0.2243</b>	<b>0.0000</b>	<b>1,125.9230</b>	<b>1,125.9230</b>	<b>0.0476</b>	<b>3.7500e-003</b>	<b>1,128.2317</b>

Fairview Specific Plan - Alameda County, Winter

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/4/2021	1/26/2021	5	17	
2	Site Preparation	Site Preparation	1/27/2021	2/1/2021	5	4	
3	Grading	Grading	2/2/2021	2/10/2021	5	7	
4	Building Construction	Building Construction	2/11/2021	11/16/2021	5	199	
5	Paving	Paving	11/17/2021	12/8/2021	5	16	
6	Architectural Coating	Architectural Coating	12/9/2021	12/30/2021	5	16	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 54,675; Residential Outdoor: 18,225; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

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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	102.00	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	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2021**

**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					1.3028	0.0000	1.3028	0.1973	0.0000	0.1973			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>1.3028</b>	<b>1.5513</b>	<b>2.8542</b>	<b>0.1973</b>	<b>1.4411</b>	<b>1.6384</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>



Fairview Specific Plan - Alameda County, Winter

**3.2 Demolition - 2021**

**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	0.0488	1.6228	0.3148	4.6500e-003	0.1050	4.9900e-003	0.1100	0.0288	4.7700e-003	0.0336		494.6222	494.6222	0.0258		495.2670
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0375	0.3676	1.1200e-003	0.1232	8.0000e-004	0.1240	0.0327	7.3000e-004	0.0334		111.3063	111.3063	2.6900e-003		111.3734
<b>Total</b>	<b>0.1017</b>	<b>1.6603</b>	<b>0.6824</b>	<b>5.7700e-003</b>	<b>0.2283</b>	<b>5.7900e-003</b>	<b>0.2341</b>	<b>0.0615</b>	<b>5.5000e-003</b>	<b>0.0670</b>		<b>605.9285</b>	<b>605.9285</b>	<b>0.0285</b>		<b>606.6404</b>

**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					0.5863	0.0000	0.5863	0.0888	0.0000	0.0888			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>0.5863</b>	<b>1.5513</b>	<b>2.1376</b>	<b>0.0888</b>	<b>1.4411</b>	<b>1.5299</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Fairview Specific Plan - Alameda County, Winter

**3.2 Demolition - 2021**

**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	0.0488	1.6228	0.3148	4.6500e-003	0.1050	4.9900e-003	0.1100	0.0288	4.7700e-003	0.0336		494.6222	494.6222	0.0258		495.2670
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0375	0.3676	1.1200e-003	0.1232	8.0000e-004	0.1240	0.0327	7.3000e-004	0.0334		111.3063	111.3063	2.6900e-003		111.3734
<b>Total</b>	<b>0.1017</b>	<b>1.6603</b>	<b>0.6824</b>	<b>5.7700e-003</b>	<b>0.2283</b>	<b>5.7900e-003</b>	<b>0.2341</b>	<b>0.0615</b>	<b>5.5000e-003</b>	<b>0.0670</b>		<b>605.9285</b>	<b>605.9285</b>	<b>0.0285</b>		<b>606.6404</b>

**3.3 Site Preparation - 2021**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Fairview Specific Plan - Alameda County, Winter

**3.3 Site Preparation - 2021**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0634	0.0450	0.4412	1.3400e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		133.5675	133.5675	3.2200e-003		133.6481
<b>Total</b>	<b>0.0634</b>	<b>0.0450</b>	<b>0.4412</b>	<b>1.3400e-003</b>	<b>0.1479</b>	<b>9.6000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.8000e-004</b>	<b>0.0401</b>		<b>133.5675</b>	<b>133.5675</b>	<b>3.2200e-003</b>		<b>133.6481</b>

**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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Fairview Specific Plan - Alameda County, Winter

**3.3 Site Preparation - 2021**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0634	0.0450	0.4412	1.3400e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		133.5675	133.5675	3.2200e-003		133.6481
<b>Total</b>	<b>0.0634</b>	<b>0.0450</b>	<b>0.4412</b>	<b>1.3400e-003</b>	<b>0.1479</b>	<b>9.6000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.8000e-004</b>	<b>0.0401</b>		<b>133.5675</b>	<b>133.5675</b>	<b>3.2200e-003</b>		<b>133.6481</b>

**3.4 Grading - 2021**

**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					6.6281	0.0000	6.6281	3.3757	0.0000	3.3757			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.6281</b>	<b>1.1599</b>	<b>7.7880</b>	<b>3.3757</b>	<b>1.0671</b>	<b>4.4428</b>		<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</b>

Fairview Specific Plan - Alameda County, Winter

**3.4 Grading - 2021**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0375	0.3676	1.1200e-003	0.1232	8.0000e-004	0.1240	0.0327	7.3000e-004	0.0334		111.3063	111.3063	2.6900e-003		111.3734
<b>Total</b>	<b>0.0529</b>	<b>0.0375</b>	<b>0.3676</b>	<b>1.1200e-003</b>	<b>0.1232</b>	<b>8.0000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.3000e-004</b>	<b>0.0334</b>		<b>111.3063</b>	<b>111.3063</b>	<b>2.6900e-003</b>		<b>111.3734</b>

**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					2.9826	0.0000	2.9826	1.5191	0.0000	1.5191			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>2.9826</b>	<b>1.1599</b>	<b>4.1426</b>	<b>1.5191</b>	<b>1.0671</b>	<b>2.5862</b>	<b>0.0000</b>	<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</b>

Fairview Specific Plan - Alameda County, Winter

**3.4 Grading - 2021**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0375	0.3676	1.1200e-003	0.1232	8.0000e-004	0.1240	0.0327	7.3000e-004	0.0334		111.3063	111.3063	2.6900e-003		111.3734
<b>Total</b>	<b>0.0529</b>	<b>0.0375</b>	<b>0.3676</b>	<b>1.1200e-003</b>	<b>0.1232</b>	<b>8.0000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.3000e-004</b>	<b>0.0334</b>		<b>111.3063</b>	<b>111.3063</b>	<b>2.6900e-003</b>		<b>111.3734</b>

**3.5 Building Construction - 2021**

**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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

Fairview Specific Plan - Alameda County, Winter

**3.5 Building Construction - 2021**

**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
Vendor	6.4000e-003	0.2134	0.0490	5.4000e-004	0.0136	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3400e-003		56.8225	56.8225	3.3500e-003		56.9062
Worker	0.0176	0.0125	0.1226	3.7000e-004	0.0411	2.7000e-004	0.0413	0.0109	2.4000e-004	0.0111		37.1021	37.1021	9.0000e-004		37.1245
<b>Total</b>	<b>0.0240</b>	<b>0.2259</b>	<b>0.1716</b>	<b>9.1000e-004</b>	<b>0.0546</b>	<b>7.2000e-004</b>	<b>0.0554</b>	<b>0.0148</b>	<b>6.7000e-004</b>	<b>0.0155</b>		<b>93.9246</b>	<b>93.9246</b>	<b>4.2500e-003</b>		<b>94.0307</b>

**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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

Fairview Specific Plan - Alameda County, Winter

**3.5 Building Construction - 2021**

**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
Vendor	6.4000e-003	0.2134	0.0490	5.4000e-004	0.0136	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3400e-003		56.8225	56.8225	3.3500e-003		56.9062
Worker	0.0176	0.0125	0.1226	3.7000e-004	0.0411	2.7000e-004	0.0413	0.0109	2.4000e-004	0.0111		37.1021	37.1021	9.0000e-004		37.1245
<b>Total</b>	<b>0.0240</b>	<b>0.2259</b>	<b>0.1716</b>	<b>9.1000e-004</b>	<b>0.0546</b>	<b>7.2000e-004</b>	<b>0.0554</b>	<b>0.0148</b>	<b>6.7000e-004</b>	<b>0.0155</b>		<b>93.9246</b>	<b>93.9246</b>	<b>4.2500e-003</b>		<b>94.0307</b>

**3.6 Paving - 2021**

**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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0940</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>		<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</b>



Fairview Specific Plan - Alameda County, Winter

**3.6 Paving - 2021**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0705	0.0499	0.4902	1.4900e-003	0.1643	1.0600e-003	0.1654	0.0436	9.8000e-004	0.0446		148.4084	148.4084	3.5800e-003		148.4979
<b>Total</b>	<b>0.0705</b>	<b>0.0499</b>	<b>0.4902</b>	<b>1.4900e-003</b>	<b>0.1643</b>	<b>1.0600e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>9.8000e-004</b>	<b>0.0446</b>		<b>148.4084</b>	<b>148.4084</b>	<b>3.5800e-003</b>		<b>148.4979</b>

**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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0940</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>	<b>0.0000</b>	<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</b>

Fairview Specific Plan - Alameda County, Winter

**3.6 Paving - 2021**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0705	0.0499	0.4902	1.4900e-003	0.1643	1.0600e-003	0.1654	0.0436	9.8000e-004	0.0446		148.4084	148.4084	3.5800e-003		148.4979
<b>Total</b>	<b>0.0705</b>	<b>0.0499</b>	<b>0.4902</b>	<b>1.4900e-003</b>	<b>0.1643</b>	<b>1.0600e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>9.8000e-004</b>	<b>0.0446</b>		<b>148.4084</b>	<b>148.4084</b>	<b>3.5800e-003</b>		<b>148.4979</b>

**3.7 Architectural Coating - 2021**

**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	23.7580					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>23.9769</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Fairview Specific Plan - Alameda County, Winter

**3.7 Architectural Coating - 2021**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.5200e-003	2.5000e-003	0.0245	7.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.4204	7.4204	1.8000e-004		7.4249
<b>Total</b>	<b>3.5200e-003</b>	<b>2.5000e-003</b>	<b>0.0245</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>5.0000e-005</b>	<b>8.2700e-003</b>	<b>2.1800e-003</b>	<b>5.0000e-005</b>	<b>2.2300e-003</b>		<b>7.4204</b>	<b>7.4204</b>	<b>1.8000e-004</b>		<b>7.4249</b>

**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	23.7580					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>23.9769</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

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**3.7 Architectural Coating - 2021**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.5200e-003	2.5000e-003	0.0245	7.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.4204	7.4204	1.8000e-004		7.4249
<b>Total</b>	<b>3.5200e-003</b>	<b>2.5000e-003</b>	<b>0.0245</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>5.0000e-005</b>	<b>8.2700e-003</b>	<b>2.1800e-003</b>	<b>5.0000e-005</b>	<b>2.2300e-003</b>		<b>7.4204</b>	<b>7.4204</b>	<b>1.8000e-004</b>		<b>7.4249</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Fairview Specific Plan - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	0.2176	1.5021	2.5104	9.0400e-003	0.7325	8.7400e-003	0.7412	0.1963	8.2100e-003	0.2045		919.0674	919.0674	0.0416		920.1063
Unmitigated	0.2176	1.5021	2.5104	9.0400e-003	0.7325	8.7400e-003	0.7412	0.1963	8.2100e-003	0.2045		919.0674	919.0674	0.0416		920.1063

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	142.80	148.65	129.30	327,288	327,288
Total	142.80	148.65	129.30	327,288	327,288

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
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.560371	0.039285	0.190378	0.108244	0.016023	0.005202	0.023981	0.045200	0.002184	0.002561	0.005524	0.000326	0.000721

5.0 Energy Detail

Historical Energy Use: N

Fairview Specific Plan - Alameda County, Winter

**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	lb/day										lb/day					
NaturalGas Mitigated	0.0188	0.1603	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130		204.6274	204.6274	3.9200e-003	3.7500e-003	205.8434
NaturalGas Unmitigated	0.0188	0.1603	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130		204.6274	204.6274	3.9200e-003	3.7500e-003	205.8434

**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					
Single Family Housing	1739.33	0.0188	0.1603	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130		204.6274	204.6274	3.9200e-003	3.7500e-003	205.8434
<b>Total</b>		<b>0.0188</b>	<b>0.1603</b>	<b>0.0682</b>	<b>1.0200e-003</b>		<b>0.0130</b>	<b>0.0130</b>		<b>0.0130</b>	<b>0.0130</b>		<b>204.6274</b>	<b>204.6274</b>	<b>3.9200e-003</b>	<b>3.7500e-003</b>	<b>205.8434</b>

Fairview Specific Plan - Alameda County, Winter

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas 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					
Single Family Housing	1.73933	0.0188	0.1603	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130		204.6274	204.6274	3.9200e-003	3.7500e-003	205.8434
<b>Total</b>		<b>0.0188</b>	<b>0.1603</b>	<b>0.0682</b>	<b>1.0200e-003</b>		<b>0.0130</b>	<b>0.0130</b>		<b>0.0130</b>	<b>0.0130</b>		<b>204.6274</b>	<b>204.6274</b>	<b>3.9200e-003</b>	<b>3.7500e-003</b>	<b>205.8434</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7194	0.0143	1.2389	7.0000e-005		6.8400e-003	6.8400e-003		6.8400e-003	6.8400e-003	0.0000	2.2283	2.2283	2.1500e-003	0.0000	2.2820
Unmitigated	0.7194	0.0143	1.2389	7.0000e-005		6.8400e-003	6.8400e-003		6.8400e-003	6.8400e-003	0.0000	2.2283	2.2283	2.1500e-003	0.0000	2.2820

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**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	0.1041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5778					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	0.0374	0.0143	1.2389	7.0000e-005		6.8400e-003	6.8400e-003		6.8400e-003	6.8400e-003		2.2283	2.2283	2.1500e-003		2.2820
<b>Total</b>	<b>0.7194</b>	<b>0.0143</b>	<b>1.2389</b>	<b>7.0000e-005</b>		<b>6.8400e-003</b>	<b>6.8400e-003</b>		<b>6.8400e-003</b>	<b>6.8400e-003</b>	<b>0.0000</b>	<b>2.2283</b>	<b>2.2283</b>	<b>2.1500e-003</b>	<b>0.0000</b>	<b>2.2820</b>



Fairview Specific Plan - Alameda County, Winter

**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	0.1041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5778					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	0.0374	0.0143	1.2389	7.0000e-005		6.8400e-003	6.8400e-003		6.8400e-003	6.8400e-003		2.2283	2.2283	2.1500e-003		2.2820
<b>Total</b>	<b>0.7194</b>	<b>0.0143</b>	<b>1.2389</b>	<b>7.0000e-005</b>		<b>6.8400e-003</b>	<b>6.8400e-003</b>		<b>6.8400e-003</b>	<b>6.8400e-003</b>	<b>0.0000</b>	<b>2.2283</b>	<b>2.2283</b>	<b>2.1500e-003</b>	<b>0.0000</b>	<b>2.2820</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**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**

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**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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**Fairview Specific Plan  
Alameda County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	150.00	Dwelling Unit	48.70	270,000.00	429

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	5			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	353.65	<b>CH4 Intensity (lb/MW hr)</b>	0.015	<b>N2O Intensity (lb/MW hr)</b>	0.003

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - Intensity factors adjusted to levels for 2030 timeline.

Land Use - Estimated 150 new housing units by 2030.

Construction Phase - Construction emissions N/A.

Demolition -

Woodstoves - No woodstoves or fireplaces.

Construction Off-road Equipment Mitigation -

Energy Use - Title-24 electricity intensity reduced by 7 percent per 2019 Title 24 standards.

Water And Wastewater - Indoor water use reduced by 20 percent to account for reductions achieved by 2016 CALGreen (Part 11 of Title 24).

Solid Waste - Solid waste generation rate was reduced by 25% because unincorporated Alameda County had a solid waste diversion rate of 74% in 2017 and is close to meeting AB 341 goal of 75%.

Energy Mitigation - On-site renewable energy generated by required solar panels on new residences per State's 2019 Building Energy Efficiency Standards.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	T24E	217.68	202.44
tblFireplaces	NumberGas	37.50	0.00
tblFireplaces	NumberNoFireplace	12.00	0.00
tblFireplaces	NumberWood	64.50	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	641.35	353.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	180.18	135.00
tblWater	IndoorWaterUseRate	9,773,103.84	7,818,483.00
tblWoodstoves	NumberCatalytic	6.00	0.00
tblWoodstoves	NumberNoncatalytic	6.00	0.00

**2.0 Emissions Summary**

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**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					
2020	0.4198	4.2853	2.9228	5.5400e-003	0.6307	0.2057	0.8364	0.2931	0.1906	0.4837	0.0000	486.4932	486.4932	0.1329	0.0000	489.8160
2021	0.2770	2.5143	2.3783	4.6100e-003	0.0694	0.1259	0.1954	0.0188	0.1184	0.1372	0.0000	404.7981	404.7981	0.0771	0.0000	406.7250
2022	0.2486	2.2557	2.3246	4.5700e-003	0.0692	0.1059	0.1751	0.0187	0.0997	0.1184	0.0000	401.0929	401.0929	0.0761	0.0000	402.9941
2023	2.0513	1.3485	1.6193	3.0400e-003	0.0405	0.0621	0.1026	0.0109	0.0583	0.0692	0.0000	267.0743	267.0743	0.0561	0.0000	268.4756
<b>Maximum</b>	<b>2.0513</b>	<b>4.2853</b>	<b>2.9228</b>	<b>5.5400e-003</b>	<b>0.6307</b>	<b>0.2057</b>	<b>0.8364</b>	<b>0.2931</b>	<b>0.1906</b>	<b>0.4837</b>	<b>0.0000</b>	<b>486.4932</b>	<b>486.4932</b>	<b>0.1329</b>	<b>0.0000</b>	<b>489.8160</b>

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**2.1 Overall Construction**

**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					
2020	0.4198	4.2853	2.9228	5.5400e-003	0.6307	0.2057	0.8364	0.2931	0.1906	0.4837	0.0000	486.4927	486.4927	0.1329	0.0000	489.8154
2021	0.2770	2.5143	2.3783	4.6100e-003	0.0694	0.1259	0.1954	0.0188	0.1184	0.1372	0.0000	404.7977	404.7977	0.0771	0.0000	406.7246
2022	0.2486	2.2557	2.3246	4.5700e-003	0.0692	0.1059	0.1751	0.0187	0.0997	0.1184	0.0000	401.0925	401.0925	0.0761	0.0000	402.9938
2023	2.0513	1.3485	1.6192	3.0400e-003	0.0405	0.0621	0.1026	0.0109	0.0583	0.0692	0.0000	267.0740	267.0740	0.0561	0.0000	268.4753
<b>Maximum</b>	<b>2.0513</b>	<b>4.2853</b>	<b>2.9228</b>	<b>5.5400e-003</b>	<b>0.6307</b>	<b>0.2057</b>	<b>0.8364</b>	<b>0.2931</b>	<b>0.1906</b>	<b>0.4837</b>	<b>0.0000</b>	<b>486.4927</b>	<b>486.4927</b>	<b>0.1329</b>	<b>0.0000</b>	<b>489.8154</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-28-2020	4-27-2020	1.2648	1.2648
2	4-28-2020	7-27-2020	1.7186	1.7186
3	7-28-2020	10-27-2020	1.1644	1.1644
4	10-28-2020	1-27-2021	0.7544	0.7544
5	1-28-2021	4-27-2021	0.6879	0.6879
6	4-28-2021	7-27-2021	0.6944	0.6944
7	7-28-2021	10-27-2021	0.7025	0.7025
8	10-28-2021	1-27-2022	0.6832	0.6832

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9	1-28-2022	4-27-2022	0.6196	0.6196
10	4-28-2022	7-27-2022	0.6254	0.6254
11	7-28-2022	10-27-2022	0.6327	0.6327
12	10-28-2022	1-27-2023	0.6167	0.6167
13	1-28-2023	4-27-2023	0.5628	0.5628
14	4-28-2023	7-27-2023	0.5152	0.5152
15	7-28-2023	9-30-2023	0.5166	0.5166
		Highest	1.7186	1.7186

**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	1.2778	0.0128	1.1108	6.0000e-005		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	1.8193	1.8193	1.7300e-003	0.0000	1.8627
Energy	0.0342	0.2925	0.1245	1.8700e-003		0.0237	0.0237		0.0237	0.0237	0.0000	530.4911	530.4911	0.0146	7.8400e-003	533.1922
Mobile	0.2404	1.8488	2.5830	0.0132	1.2232	8.2200e-003	1.2314	0.3285	7.6700e-003	0.3362	0.0000	1,224.0902	1,224.0902	0.0451	0.0000	1,225.2180
Waste						0.0000	0.0000		0.0000	0.0000	27.4038	0.0000	27.4038	1.6195	0.0000	67.8917
Water						0.0000	0.0000		0.0000	0.0000	2.4804	10.2456	12.7261	0.2552	6.1000e-003	20.9246
<b>Total</b>	<b>1.5524</b>	<b>2.1542</b>	<b>3.8183</b>	<b>0.0151</b>	<b>1.2232</b>	<b>0.0381</b>	<b>1.2612</b>	<b>0.3285</b>	<b>0.0375</b>	<b>0.3660</b>	<b>29.8842</b>	<b>1,766.6462</b>	<b>1,796.5304</b>	<b>1.9362</b>	<b>0.0139</b>	<b>1,849.0892</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2778	0.0128	1.1108	6.0000e-005		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	1.8193	1.8193	1.7300e-003	0.0000	1.8627
Energy	0.0342	0.2925	0.1245	1.8700e-003		0.0237	0.0237		0.0237	0.0237	0.0000	484.1585	484.1585	0.0127	7.4400e-003	486.6934
Mobile	0.2404	1.8488	2.5830	0.0132	1.2232	8.2200e-003	1.2314	0.3285	7.6700e-003	0.3362	0.0000	1,224.0902	1,224.0902	0.0451	0.0000	1,225.2180
Waste						0.0000	0.0000		0.0000	0.0000	27.4038	0.0000	27.4038	1.6195	0.0000	67.8917
Water						0.0000	0.0000		0.0000	0.0000	2.4804	10.2456	12.7261	0.2552	6.1000e-003	20.9246
<b>Total</b>	<b>1.5524</b>	<b>2.1542</b>	<b>3.8183</b>	<b>0.0151</b>	<b>1.2232</b>	<b>0.0381</b>	<b>1.2612</b>	<b>0.3285</b>	<b>0.0375</b>	<b>0.3660</b>	<b>29.8842</b>	<b>1,720.3136</b>	<b>1,750.1979</b>	<b>1.9342</b>	<b>0.0135</b>	<b>1,802.5904</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2.62</b>	<b>2.58</b>	<b>0.10</b>	<b>2.87</b>	<b>2.51</b>

**3.0 Construction Detail**

**Construction Phase**



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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/28/2020	4/6/2020	5	50	
2	Site Preparation	Site Preparation	4/7/2020	5/18/2020	5	30	
3	Grading	Grading	5/19/2020	8/31/2020	5	75	
4	Building Construction	Building Construction	9/1/2020	7/3/2023	5	740	
5	Paving	Paving	7/4/2023	9/18/2023	5	55	
6	Architectural Coating	Architectural Coating	9/19/2023	12/4/2023	5	55	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 187.5**

**Acres of Paving: 0**

**Residential Indoor: 546,750; Residential Outdoor: 182,250; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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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	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
Grading	Scrapers	2	8.00	367	0.48
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

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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	0.00	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	54.00	16.00	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	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0828	0.8300	0.5438	9.7000e-004		0.0415	0.0415		0.0386	0.0386	0.0000	84.9965	84.9965	0.0240	0.0000	85.5964
<b>Total</b>	<b>0.0828</b>	<b>0.8300</b>	<b>0.5438</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>0.0415</b>	<b>0.0415</b>	<b>0.0000</b>	<b>0.0386</b>	<b>0.0386</b>	<b>0.0000</b>	<b>84.9965</b>	<b>84.9965</b>	<b>0.0240</b>	<b>0.0000</b>	<b>85.5964</b>

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**3.2 Demolition - 2020**

**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	1.3000e-003	9.6000e-004	9.8100e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6357	2.6357	7.0000e-005	0.0000	2.6374
<b>Total</b>	<b>1.3000e-003</b>	<b>9.6000e-004</b>	<b>9.8100e-003</b>	<b>3.0000e-005</b>	<b>2.9700e-003</b>	<b>2.0000e-005</b>	<b>2.9900e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>2.6357</b>	<b>2.6357</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.6374</b>

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0828	0.8300	0.5438	9.7000e-004		0.0415	0.0415		0.0386	0.0386	0.0000	84.9964	84.9964	0.0240	0.0000	85.5963
<b>Total</b>	<b>0.0828</b>	<b>0.8300</b>	<b>0.5438</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>0.0415</b>	<b>0.0415</b>	<b>0.0000</b>	<b>0.0386</b>	<b>0.0386</b>	<b>0.0000</b>	<b>84.9964</b>	<b>84.9964</b>	<b>0.0240</b>	<b>0.0000</b>	<b>85.5963</b>

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**3.2 Demolition - 2020**

**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	1.3000e-003	9.6000e-004	9.8100e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6357	2.6357	7.0000e-005	0.0000	2.6374
<b>Total</b>	<b>1.3000e-003</b>	<b>9.6000e-004</b>	<b>9.8100e-003</b>	<b>3.0000e-005</b>	<b>2.9700e-003</b>	<b>2.0000e-005</b>	<b>2.9900e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>2.6357</b>	<b>2.6357</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.6374</b>

**3.3 Site Preparation - 2020**

**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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6363	0.3227	5.7000e-004		0.0330	0.0330		0.0303	0.0303	0.0000	50.1460	50.1460	0.0162	0.0000	50.5515
<b>Total</b>	<b>0.0612</b>	<b>0.6363</b>	<b>0.3227</b>	<b>5.7000e-004</b>	<b>0.2710</b>	<b>0.0330</b>	<b>0.3040</b>	<b>0.1490</b>	<b>0.0303</b>	<b>0.1793</b>	<b>0.0000</b>	<b>50.1460</b>	<b>50.1460</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.5515</b>

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**3.3 Site Preparation - 2020**

**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	9.3000e-004	6.9000e-004	7.0600e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8977	1.8977	5.0000e-005	0.0000	1.8989
<b>Total</b>	<b>9.3000e-004</b>	<b>6.9000e-004</b>	<b>7.0600e-003</b>	<b>2.0000e-005</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>2.1500e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.8977</b>	<b>1.8977</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.8989</b>

**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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6363	0.3227	5.7000e-004		0.0330	0.0330		0.0303	0.0303	0.0000	50.1460	50.1460	0.0162	0.0000	50.5514
<b>Total</b>	<b>0.0612</b>	<b>0.6363</b>	<b>0.3227</b>	<b>5.7000e-004</b>	<b>0.2710</b>	<b>0.0330</b>	<b>0.3040</b>	<b>0.1490</b>	<b>0.0303</b>	<b>0.1793</b>	<b>0.0000</b>	<b>50.1460</b>	<b>50.1460</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.5514</b>

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**3.3 Site Preparation - 2020**

**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	9.3000e-004	6.9000e-004	7.0600e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8977	1.8977	5.0000e-005	0.0000	1.8989
<b>Total</b>	<b>9.3000e-004</b>	<b>6.9000e-004</b>	<b>7.0600e-003</b>	<b>2.0000e-005</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>2.1500e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.8977</b>	<b>1.8977</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.8989</b>

**3.4 Grading - 2020**

**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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.8824	1.1984	2.3300e-003		0.0815	0.0815		0.0750	0.0750	0.0000	204.3161	204.3161	0.0661	0.0000	205.9681
<b>Total</b>	<b>0.1669</b>	<b>1.8824</b>	<b>1.1984</b>	<b>2.3300e-003</b>	<b>0.3253</b>	<b>0.0815</b>	<b>0.4068</b>	<b>0.1349</b>	<b>0.0750</b>	<b>0.2099</b>	<b>0.0000</b>	<b>204.3161</b>	<b>204.3161</b>	<b>0.0661</b>	<b>0.0000</b>	<b>205.9681</b>

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**3.4 Grading - 2020**

**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	2.5900e-003	1.9100e-003	0.0196	6.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.2714	5.2714	1.4000e-004	0.0000	5.2748
<b>Total</b>	<b>2.5900e-003</b>	<b>1.9100e-003</b>	<b>0.0196</b>	<b>6.0000e-005</b>	<b>5.9300e-003</b>	<b>4.0000e-005</b>	<b>5.9700e-003</b>	<b>1.5800e-003</b>	<b>4.0000e-005</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>5.2714</b>	<b>5.2714</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.2748</b>

**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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.8824	1.1984	2.3300e-003		0.0815	0.0815		0.0750	0.0750	0.0000	204.3159	204.3159	0.0661	0.0000	205.9679
<b>Total</b>	<b>0.1669</b>	<b>1.8824</b>	<b>1.1984</b>	<b>2.3300e-003</b>	<b>0.3253</b>	<b>0.0815</b>	<b>0.4068</b>	<b>0.1349</b>	<b>0.0750</b>	<b>0.2099</b>	<b>0.0000</b>	<b>204.3159</b>	<b>204.3159</b>	<b>0.0661</b>	<b>0.0000</b>	<b>205.9679</b>



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**3.4 Grading - 2020**

**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	2.5900e-003	1.9100e-003	0.0196	6.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.2714	5.2714	1.4000e-004	0.0000	5.2748
<b>Total</b>	<b>2.5900e-003</b>	<b>1.9100e-003</b>	<b>0.0196</b>	<b>6.0000e-005</b>	<b>5.9300e-003</b>	<b>4.0000e-005</b>	<b>5.9700e-003</b>	<b>1.5800e-003</b>	<b>4.0000e-005</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>5.2714</b>	<b>5.2714</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.2748</b>

**3.5 Building Construction - 2020**

**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	0.0933	0.8442	0.7413	1.1800e-003		0.0492	0.0492		0.0462	0.0462	0.0000	101.9084	101.9084	0.0249	0.0000	102.5299
<b>Total</b>	<b>0.0933</b>	<b>0.8442</b>	<b>0.7413</b>	<b>1.1800e-003</b>		<b>0.0492</b>	<b>0.0492</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>101.9084</b>	<b>101.9084</b>	<b>0.0249</b>	<b>0.0000</b>	<b>102.5299</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6400e-003	0.0828	0.0178	1.9000e-004	4.6200e-003	3.8000e-004	5.0100e-003	1.3400e-003	3.7000e-004	1.7000e-003	0.0000	18.6215	18.6215	1.0700e-003	0.0000	18.6483
Worker	8.2200e-003	6.0600e-003	0.0622	1.8000e-004	0.0188	1.3000e-004	0.0189	5.0000e-003	1.2000e-004	5.1200e-003	0.0000	16.6998	16.6998	4.3000e-004	0.0000	16.7106
<b>Total</b>	<b>0.0109</b>	<b>0.0888</b>	<b>0.0800</b>	<b>3.7000e-004</b>	<b>0.0234</b>	<b>5.1000e-004</b>	<b>0.0239</b>	<b>6.3400e-003</b>	<b>4.9000e-004</b>	<b>6.8200e-003</b>	<b>0.0000</b>	<b>35.3214</b>	<b>35.3214</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>35.3589</b>

**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	0.0933	0.8442	0.7413	1.1800e-003		0.0492	0.0492		0.0462	0.0462	0.0000	101.9083	101.9083	0.0249	0.0000	102.5298
<b>Total</b>	<b>0.0933</b>	<b>0.8442</b>	<b>0.7413</b>	<b>1.1800e-003</b>		<b>0.0492</b>	<b>0.0492</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>101.9083</b>	<b>101.9083</b>	<b>0.0249</b>	<b>0.0000</b>	<b>102.5298</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6400e-003	0.0828	0.0178	1.9000e-004	4.6200e-003	3.8000e-004	5.0100e-003	1.3400e-003	3.7000e-004	1.7000e-003	0.0000	18.6215	18.6215	1.0700e-003	0.0000	18.6483
Worker	8.2200e-003	6.0600e-003	0.0622	1.8000e-004	0.0188	1.3000e-004	0.0189	5.0000e-003	1.2000e-004	5.1200e-003	0.0000	16.6998	16.6998	4.3000e-004	0.0000	16.7106
<b>Total</b>	<b>0.0109</b>	<b>0.0888</b>	<b>0.0800</b>	<b>3.7000e-004</b>	<b>0.0234</b>	<b>5.1000e-004</b>	<b>0.0239</b>	<b>6.3400e-003</b>	<b>4.9000e-004</b>	<b>6.8200e-003</b>	<b>0.0000</b>	<b>35.3214</b>	<b>35.3214</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>35.3589</b>

**3.5 Building Construction - 2021**

**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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
<b>Total</b>	<b>0.2481</b>	<b>2.2749</b>	<b>2.1631</b>	<b>3.5100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>302.2867</b>	<b>302.2867</b>	<b>0.0729</b>	<b>0.0000</b>	<b>304.1099</b>

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**3.5 Building Construction - 2021**

**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	6.4600e-003	0.2233	0.0473	5.7000e-004	0.0137	4.7000e-004	0.0142	3.9700e-003	4.5000e-004	4.4100e-003	0.0000	54.6995	54.6995	3.0000e-003	0.0000	54.7746
Worker	0.0225	0.0160	0.1680	5.3000e-004	0.0557	3.7000e-004	0.0561	0.0148	3.5000e-004	0.0152	0.0000	47.8120	47.8120	1.1400e-003	0.0000	47.8405
<b>Total</b>	<b>0.0290</b>	<b>0.2394</b>	<b>0.2153</b>	<b>1.1000e-003</b>	<b>0.0694</b>	<b>8.4000e-004</b>	<b>0.0703</b>	<b>0.0188</b>	<b>8.0000e-004</b>	<b>0.0196</b>	<b>0.0000</b>	<b>102.5114</b>	<b>102.5114</b>	<b>4.1400e-003</b>	<b>0.0000</b>	<b>102.6151</b>

**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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
<b>Total</b>	<b>0.2481</b>	<b>2.2749</b>	<b>2.1631</b>	<b>3.5100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>302.2863</b>	<b>302.2863</b>	<b>0.0729</b>	<b>0.0000</b>	<b>304.1095</b>

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**3.5 Building Construction - 2021**

**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	6.4600e-003	0.2233	0.0473	5.7000e-004	0.0137	4.7000e-004	0.0142	3.9700e-003	4.5000e-004	4.4100e-003	0.0000	54.6995	54.6995	3.0000e-003	0.0000	54.7746
Worker	0.0225	0.0160	0.1680	5.3000e-004	0.0557	3.7000e-004	0.0561	0.0148	3.5000e-004	0.0152	0.0000	47.8120	47.8120	1.1400e-003	0.0000	47.8405
<b>Total</b>	<b>0.0290</b>	<b>0.2394</b>	<b>0.2153</b>	<b>1.1000e-003</b>	<b>0.0694</b>	<b>8.4000e-004</b>	<b>0.0703</b>	<b>0.0188</b>	<b>8.0000e-004</b>	<b>0.0196</b>	<b>0.0000</b>	<b>102.5114</b>	<b>102.5114</b>	<b>4.1400e-003</b>	<b>0.0000</b>	<b>102.6151</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2428</b>	<b>301.2428</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0471</b>

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**3.5 Building Construction - 2022**

**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	6.0200e-003	0.2113	0.0441	5.6000e-004	0.0137	4.0000e-004	0.0141	3.9500e-003	3.8000e-004	4.3400e-003	0.0000	53.9571	53.9571	2.8600e-003	0.0000	54.0286
Worker	0.0208	0.0143	0.1532	5.1000e-004	0.0555	3.6000e-004	0.0559	0.0148	3.3000e-004	0.0151	0.0000	45.8930	45.8930	1.0200e-003	0.0000	45.9185
<b>Total</b>	<b>0.0268</b>	<b>0.2256</b>	<b>0.1973</b>	<b>1.0700e-003</b>	<b>0.0692</b>	<b>7.6000e-004</b>	<b>0.0699</b>	<b>0.0187</b>	<b>7.1000e-004</b>	<b>0.0194</b>	<b>0.0000</b>	<b>99.8501</b>	<b>99.8501</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>99.9471</b>

**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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2425</b>	<b>301.2425</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0467</b>

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**3.5 Building Construction - 2022**

**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	6.0200e-003	0.2113	0.0441	5.6000e-004	0.0137	4.0000e-004	0.0141	3.9500e-003	3.8000e-004	4.3400e-003	0.0000	53.9571	53.9571	2.8600e-003	0.0000	54.0286
Worker	0.0208	0.0143	0.1532	5.1000e-004	0.0555	3.6000e-004	0.0559	0.0148	3.3000e-004	0.0151	0.0000	45.8930	45.8930	1.0200e-003	0.0000	45.9185
<b>Total</b>	<b>0.0268</b>	<b>0.2256</b>	<b>0.1973</b>	<b>1.0700e-003</b>	<b>0.0692</b>	<b>7.6000e-004</b>	<b>0.0699</b>	<b>0.0187</b>	<b>7.1000e-004</b>	<b>0.0194</b>	<b>0.0000</b>	<b>99.8501</b>	<b>99.8501</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>99.9471</b>

**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	0.1030	0.9422	1.0640	1.7600e-003		0.0458	0.0458		0.0431	0.0431	0.0000	151.8321	151.8321	0.0361	0.0000	152.7351
<b>Total</b>	<b>0.1030</b>	<b>0.9422</b>	<b>1.0640</b>	<b>1.7600e-003</b>		<b>0.0458</b>	<b>0.0458</b>		<b>0.0431</b>	<b>0.0431</b>	<b>0.0000</b>	<b>151.8321</b>	<b>151.8321</b>	<b>0.0361</b>	<b>0.0000</b>	<b>152.7351</b>

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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	2.2200e-003	0.0824	0.0194	2.8000e-004	6.8800e-003	9.0000e-005	6.9700e-003	1.9900e-003	8.0000e-005	2.0700e-003	0.0000	26.4126	26.4126	1.1500e-003	0.0000	26.4414
Worker	9.7600e-003	6.4600e-003	0.0707	2.5000e-004	0.0280	1.8000e-004	0.0281	7.4400e-003	1.6000e-004	7.6000e-003	0.0000	22.2387	22.2387	4.6000e-004	0.0000	22.2502
<b>Total</b>	<b>0.0120</b>	<b>0.0889</b>	<b>0.0901</b>	<b>5.3000e-004</b>	<b>0.0349</b>	<b>2.7000e-004</b>	<b>0.0351</b>	<b>9.4300e-003</b>	<b>2.4000e-004</b>	<b>9.6700e-003</b>	<b>0.0000</b>	<b>48.6513</b>	<b>48.6513</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>48.6916</b>

**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	0.1030	0.9422	1.0640	1.7600e-003		0.0458	0.0458		0.0431	0.0431	0.0000	151.8319	151.8319	0.0361	0.0000	152.7349
<b>Total</b>	<b>0.1030</b>	<b>0.9422</b>	<b>1.0640</b>	<b>1.7600e-003</b>		<b>0.0458</b>	<b>0.0458</b>		<b>0.0431</b>	<b>0.0431</b>	<b>0.0000</b>	<b>151.8319</b>	<b>151.8319</b>	<b>0.0361</b>	<b>0.0000</b>	<b>152.7349</b>



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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	2.2200e-003	0.0824	0.0194	2.8000e-004	6.8800e-003	9.0000e-005	6.9700e-003	1.9900e-003	8.0000e-005	2.0700e-003	0.0000	26.4126	26.4126	1.1500e-003	0.0000	26.4414
Worker	9.7600e-003	6.4600e-003	0.0707	2.5000e-004	0.0280	1.8000e-004	0.0281	7.4400e-003	1.6000e-004	7.6000e-003	0.0000	22.2387	22.2387	4.6000e-004	0.0000	22.2502
<b>Total</b>	<b>0.0120</b>	<b>0.0889</b>	<b>0.0901</b>	<b>5.3000e-004</b>	<b>0.0349</b>	<b>2.7000e-004</b>	<b>0.0351</b>	<b>9.4300e-003</b>	<b>2.4000e-004</b>	<b>9.6700e-003</b>	<b>0.0000</b>	<b>48.6513</b>	<b>48.6513</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>48.6916</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0284	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0739	55.0739	0.0178	0.0000	55.5192
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0284</b>	<b>0.2803</b>	<b>0.4011</b>	<b>6.3000e-004</b>		<b>0.0140</b>	<b>0.0140</b>		<b>0.0129</b>	<b>0.0129</b>	<b>0.0000</b>	<b>55.0739</b>	<b>55.0739</b>	<b>0.0178</b>	<b>0.0000</b>	<b>55.5192</b>

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**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	7.5000e-004	8.2400e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.5936	2.5936	5.0000e-005	0.0000	2.5949
<b>Total</b>	<b>1.1400e-003</b>	<b>7.5000e-004</b>	<b>8.2400e-003</b>	<b>3.0000e-005</b>	<b>3.2600e-003</b>	<b>2.0000e-005</b>	<b>3.2800e-003</b>	<b>8.7000e-004</b>	<b>2.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>2.5936</b>	<b>2.5936</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.5949</b>

**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	0.0284	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0738	55.0738	0.0178	0.0000	55.5191
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0284</b>	<b>0.2803</b>	<b>0.4011</b>	<b>6.3000e-004</b>		<b>0.0140</b>	<b>0.0140</b>		<b>0.0129</b>	<b>0.0129</b>	<b>0.0000</b>	<b>55.0738</b>	<b>55.0738</b>	<b>0.0178</b>	<b>0.0000</b>	<b>55.5191</b>

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**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	7.5000e-004	8.2400e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.5936	2.5936	5.0000e-005	0.0000	2.5949
<b>Total</b>	<b>1.1400e-003</b>	<b>7.5000e-004</b>	<b>8.2400e-003</b>	<b>3.0000e-005</b>	<b>3.2600e-003</b>	<b>2.0000e-005</b>	<b>3.2800e-003</b>	<b>8.7000e-004</b>	<b>2.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>2.5936</b>	<b>2.5936</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.5949</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9006					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2700e-003	0.0358	0.0498	8.0000e-005		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	7.0215	7.0215	4.2000e-004	0.0000	7.0320
<b>Total</b>	<b>1.9059</b>	<b>0.0358</b>	<b>0.0498</b>	<b>8.0000e-005</b>		<b>1.9500e-003</b>	<b>1.9500e-003</b>		<b>1.9500e-003</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>7.0215</b>	<b>7.0215</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>7.0320</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.5000e-004	6.0400e-003	2.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.9020	1.9020	4.0000e-005	0.0000	1.9029
<b>Total</b>	<b>8.3000e-004</b>	<b>5.5000e-004</b>	<b>6.0400e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>2.0000e-005</b>	<b>2.4100e-003</b>	<b>6.4000e-004</b>	<b>1.0000e-005</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>1.9020</b>	<b>1.9020</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.9029</b>

**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	1.9006					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2700e-003	0.0358	0.0498	8.0000e-005		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	7.0214	7.0214	4.2000e-004	0.0000	7.0319
<b>Total</b>	<b>1.9059</b>	<b>0.0358</b>	<b>0.0498</b>	<b>8.0000e-005</b>		<b>1.9500e-003</b>	<b>1.9500e-003</b>		<b>1.9500e-003</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>7.0214</b>	<b>7.0214</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>7.0319</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.5000e-004	6.0400e-003	2.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.9020	1.9020	4.0000e-005	0.0000	1.9029
<b>Total</b>	<b>8.3000e-004</b>	<b>5.5000e-004</b>	<b>6.0400e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>2.0000e-005</b>	<b>2.4100e-003</b>	<b>6.4000e-004</b>	<b>1.0000e-005</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>1.9020</b>	<b>1.9020</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.9029</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2404	1.8488	2.5830	0.0132	1.2232	8.2200e-003	1.2314	0.3285	7.6700e-003	0.3362	0.0000	1,224.0902	1,224.0902	0.0451	0.0000	1,225.2180
Unmitigated	0.2404	1.8488	2.5830	0.0132	1.2232	8.2200e-003	1.2314	0.3285	7.6700e-003	0.3362	0.0000	1,224.0902	1,224.0902	0.0451	0.0000	1,225.2180

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,428.00	1,486.50	1293.00	3,272,879	3,272,879
Total	1,428.00	1,486.50	1,293.00	3,272,879	3,272,879

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
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.566339	0.035990	0.189848	0.102849	0.012430	0.005068	0.026569	0.050520	0.002280	0.001770	0.005305	0.000389	0.000644

5.0 Energy Detail

Historical Energy Use: N

Fairview Specific Plan - Alameda County, Annual

**5.1 Mitigation Measures Energy**

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive 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	145.3750	145.3750	6.1700e-003	1.2300e-003	145.8966
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	191.7075	191.7075	8.1300e-003	1.6300e-003	192.3954
NaturalGas Mitigated	0.0342	0.2925	0.1245	1.8700e-003		0.0237	0.0237		0.0237	0.0237	0.0000	338.7836	338.7836	6.4900e-003	6.2100e-003	340.7968
NaturalGas Unmitigated	0.0342	0.2925	0.1245	1.8700e-003		0.0237	0.0237		0.0237	0.0237	0.0000	338.7836	338.7836	6.4900e-003	6.2100e-003	340.7968

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	6.34856e+006	0.0342	0.2925	0.1245	1.8700e-003		0.0237	0.0237		0.0237	0.0237	0.0000	338.7836	338.7836	6.4900e-003	6.2100e-003	340.7968
<b>Total</b>		<b>0.0342</b>	<b>0.2925</b>	<b>0.1245</b>	<b>1.8700e-003</b>		<b>0.0237</b>	<b>0.0237</b>		<b>0.0237</b>	<b>0.0237</b>	<b>0.0000</b>	<b>338.7836</b>	<b>338.7836</b>	<b>6.4900e-003</b>	<b>6.2100e-003</b>	<b>340.7968</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	6.34856e+006	0.0342	0.2925	0.1245	1.8700e-003		0.0237	0.0237		0.0237	0.0237	0.0000	338.7836	338.7836	6.4900e-003	6.2100e-003	340.7968
<b>Total</b>		<b>0.0342</b>	<b>0.2925</b>	<b>0.1245</b>	<b>1.8700e-003</b>		<b>0.0237</b>	<b>0.0237</b>		<b>0.0237</b>	<b>0.0237</b>	<b>0.0000</b>	<b>338.7836</b>	<b>338.7836</b>	<b>6.4900e-003</b>	<b>6.2100e-003</b>	<b>340.7968</b>



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.19509e+006	191.7075	8.1300e-003	1.6300e-003	192.3954
<b>Total</b>		<b>191.7075</b>	<b>8.1300e-003</b>	<b>1.6300e-003</b>	<b>192.3954</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	906255	145.3750	6.1700e-003	1.2300e-003	145.8966
<b>Total</b>		<b>145.3750</b>	<b>6.1700e-003</b>	<b>1.2300e-003</b>	<b>145.8966</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2778	0.0128	1.1108	6.0000e-005		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	1.8193	1.8193	1.7300e-003	0.0000	1.8627
Unmitigated	1.2778	0.0128	1.1108	6.0000e-005		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	1.8193	1.8193	1.7300e-003	0.0000	1.8627

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	0.1901					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0545					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	0.0332	0.0128	1.1108	6.0000e-005		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	1.8193	1.8193	1.7300e-003	0.0000	1.8627
<b>Total</b>	<b>1.2778</b>	<b>0.0128</b>	<b>1.1108</b>	<b>6.0000e-005</b>		<b>6.1800e-003</b>	<b>6.1800e-003</b>		<b>6.1800e-003</b>	<b>6.1800e-003</b>	<b>0.0000</b>	<b>1.8193</b>	<b>1.8193</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>1.8627</b>

Fairview Specific Plan - Alameda County, Annual

**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	0.1901					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0545					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	0.0332	0.0128	1.1108	6.0000e-005		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	1.8193	1.8193	1.7300e-003	0.0000	1.8627
<b>Total</b>	<b>1.2778</b>	<b>0.0128</b>	<b>1.1108</b>	<b>6.0000e-005</b>		<b>6.1800e-003</b>	<b>6.1800e-003</b>		<b>6.1800e-003</b>	<b>6.1800e-003</b>	<b>0.0000</b>	<b>1.8193</b>	<b>1.8193</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>1.8627</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Fairview Specific Plan - Alameda County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.7261	0.2552	6.1000e-003	20.9246
Unmitigated	12.7261	0.2552	6.1000e-003	20.9246

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.81848 / 6.1613	12.7261	0.2552	6.1000e-003	20.9246
<b>Total</b>		<b>12.7261</b>	<b>0.2552</b>	<b>6.1000e-003</b>	<b>20.9246</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	7.81848 / 6.1613	12.7261	0.2552	6.1000e-003	20.9246
<b>Total</b>		<b>12.7261</b>	<b>0.2552</b>	<b>6.1000e-003</b>	<b>20.9246</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	27.4038	1.6195	0.0000	67.8917
Unmitigated	27.4038	1.6195	0.0000	67.8917

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	135	27.4038	1.6195	0.0000	67.8917
<b>Total</b>		<b>27.4038</b>	<b>1.6195</b>	<b>0.0000</b>	<b>67.8917</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	135	27.4038	1.6195	0.0000	67.8917
<b>Total</b>		<b>27.4038</b>	<b>1.6195</b>	<b>0.0000</b>	<b>67.8917</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Fairview Specific Plan - Alameda County, Annual

**10.0 Stationary Equipment**

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**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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## N2O Operational GHG Emission Mobile Calculations

Project Code & Title: Fairview Specific Plan

Vehicle Population Breakdown*	
5460005	Gasoline vehicles
271191	Diesel vehicles
95.3%	Gasoline vehicle %
4.7%	Diesel vehicle %

VMT per Vehicle Type	
3272879	Project VMT (CalEEMod output)
3118012	Gasoline vehicle VMT
154867	Diesel vehicle VMT

Gasoline Vehicles	
95.3%	Gasoline vehicle %
1.8488	Tons per year mobile NOX emissions (annual output in CalEEMod)
1.76	Gasoline vehicle tons per year NOX emissions
0.0908	Tons per year N2O emissions for gasoline vehicles**
0.0824	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
22.99	Diesel average miles per gallon*
0.06961	grams per mile N2O for diesel vehicles
10780.2	grams per year N2O for diesel vehicles
0.0107802	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.0932	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
27.8	<b>CO2e emissions per year from N2O emissions from gasoline + diesel vehicles</b>

Sources
<p><b>*Vehicle population source:</b>                      EMFAC2017 (v1.0.2) Emissions Inventory                      Region Type: Air District                      Region: BAAQMD                      Calendar Year: 2030                      Season: Annual                      Vehicle Classification: EMFAC2011 Categories</p> <p><b>**Methodology source:</b>                      EMFAC2017 Volume III - Technical Documentation  <a href="https://www.arb.ca.gov/msei/emfac2011-faq.htm">https://www.arb.ca.gov/msei/emfac2011-faq.htm</a></p> <p><b>***GWP source:</b>                      Intergovernmental Panel on Climate Change (IPCC). 2007.                      AR4 Climate Change 2007: The Physical Science Basis.                      Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>



Fairview Specific Plan - Alameda County, Annual

**Fairview Specific Plan  
Alameda County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	300.00	Dwelling Unit	97.40	540,000.00	858

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	5			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	117.88	<b>CH4 Intensity (lb/MW hr)</b>	0.005	<b>N2O Intensity (lb/MW hr)</b>	0.001

**1.3 User Entered Comments & Non-Default Data**

Fairview Specific Plan - Alameda County, Annual

Project Characteristics - Intensity factors adjusted to levels for 2040 operational year.

Land Use - Estimated 300 new housing units by 2040.

Construction Phase - Construction emissions N/A.

Demolition -

Woodstoves - No woodstoves or fireplaces.

Construction Off-road Equipment Mitigation -

Energy Use - Title-24 electricity intensity reduced by 7 percent per 2019 Title 24 standards.

Water And Wastewater - Indoor water use reduced by 20 percent to account for reductions achieved by 2016 CALGreen (Part 11 of Title 24).

Solid Waste - Solid waste generation rate was reduced by 25% because unincorporated Alameda County had a solid waste diversion rate of 74% in 2017 and is close to meeting AB 341 goal of 75%.

Energy Mitigation - On-site renewable energy generated by required solar panels on new residences per State's 2019 Building Energy Efficiency Standards.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	T24E	217.68	202.44
tblFireplaces	NumberGas	75.00	0.00
tblFireplaces	NumberNoFireplace	24.00	0.00
tblFireplaces	NumberWood	129.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.005
tblProjectCharacteristics	CO2IntensityFactor	641.35	117.88
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.001
tblSolidWaste	SolidWasteGenerationRate	360.36	270.00
tblWater	IndoorWaterUseRate	19,546,207.69	15,636,966.00
tblWoodstoves	NumberCatalytic	12.00	0.00
tblWoodstoves	NumberNoncatalytic	12.00	0.00

**2.0 Emissions Summary**

Fairview Specific Plan - Alameda County, Annual

**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					
2020	0.4799	5.0212	3.1148	5.8200e-003	1.0141	0.2392	1.2533	0.4619	0.2209	0.6828	0.0000	511.2954	511.2954	0.1539	0.0000	515.1439
2021	0.3748	3.6661	3.0069	6.4200e-003	0.5285	0.1633	0.6918	0.1701	0.1521	0.3222	0.0000	568.4290	568.4290	0.1224	0.0000	571.4886
2022	0.2755	2.4813	2.5219	5.6400e-003	0.1383	0.1067	0.2450	0.0374	0.1004	0.1378	0.0000	500.9430	500.9430	0.0799	0.0000	502.9412
2023	0.2520	2.2229	2.4694	5.5700e-003	0.1383	0.0920	0.2304	0.0374	0.0866	0.1240	0.0000	494.4658	494.4658	0.0781	0.0000	496.4178
2024	0.2380	2.1117	2.4533	5.5700e-003	0.1394	0.0814	0.2208	0.0377	0.0766	0.1143	0.0000	494.0700	494.0700	0.0780	0.0000	496.0205
2025	0.2211	1.9718	2.4108	5.5000e-003	0.1389	0.0699	0.2087	0.0376	0.0657	0.1033	0.0000	488.1158	488.1158	0.0771	0.0000	490.0432
2026	0.2191	1.9674	2.3920	5.4600e-003	0.1389	0.0699	0.2087	0.0376	0.0657	0.1033	0.0000	484.4660	484.4660	0.0769	0.0000	486.3887
2027	3.3582	0.9569	1.4331	2.6900e-003	0.0450	0.0408	0.0858	0.0121	0.0380	0.0501	0.0000	237.2077	237.2077	0.0532	0.0000	238.5373
2028	0.5546	9.3700e-003	0.0169	3.0000e-005	1.3900e-003	4.2000e-004	1.8100e-003	3.7000e-004	4.2000e-004	7.9000e-004	0.0000	2.9605	2.9605	1.3000e-004	0.0000	2.9636
<b>Maximum</b>	<b>3.3582</b>	<b>5.0212</b>	<b>3.1148</b>	<b>6.4200e-003</b>	<b>1.0141</b>	<b>0.2392</b>	<b>1.2533</b>	<b>0.4619</b>	<b>0.2209</b>	<b>0.6828</b>	<b>0.0000</b>	<b>568.4290</b>	<b>568.4290</b>	<b>0.1539</b>	<b>0.0000</b>	<b>571.4886</b>

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2.1 Overall Construction

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					
2020	0.4799	5.0212	3.1148	5.8200e-003	1.0141	0.2392	1.2533	0.4619	0.2209	0.6828	0.0000	511.2948	511.2948	0.1539	0.0000	515.1433
2021	0.3748	3.6661	3.0069	6.4200e-003	0.5285	0.1633	0.6918	0.1701	0.1521	0.3222	0.0000	568.4285	568.4285	0.1224	0.0000	571.4881
2022	0.2755	2.4813	2.5219	5.6400e-003	0.1383	0.1067	0.2450	0.0374	0.1004	0.1378	0.0000	500.9426	500.9426	0.0799	0.0000	502.9408
2023	0.2520	2.2229	2.4694	5.5700e-003	0.1383	0.0920	0.2304	0.0374	0.0866	0.1240	0.0000	494.4655	494.4655	0.0781	0.0000	496.4174
2024	0.2379	2.1117	2.4533	5.5700e-003	0.1394	0.0814	0.2208	0.0377	0.0766	0.1143	0.0000	494.0697	494.0697	0.0780	0.0000	496.0202
2025	0.2211	1.9718	2.4108	5.5000e-003	0.1389	0.0699	0.2087	0.0376	0.0657	0.1033	0.0000	488.1154	488.1154	0.0771	0.0000	490.0429
2026	0.2191	1.9674	2.3919	5.4600e-003	0.1389	0.0699	0.2087	0.0376	0.0657	0.1033	0.0000	484.4657	484.4657	0.0769	0.0000	486.3883
2027	3.3582	0.9569	1.4331	2.6900e-003	0.0450	0.0408	0.0858	0.0121	0.0380	0.0501	0.0000	237.2074	237.2074	0.0532	0.0000	238.5371
2028	0.5546	9.3700e-003	0.0169	3.0000e-005	1.3900e-003	4.2000e-004	1.8100e-003	3.7000e-004	4.2000e-004	7.9000e-004	0.0000	2.9605	2.9605	1.3000e-004	0.0000	2.9636
<b>Maximum</b>	<b>3.3582</b>	<b>5.0212</b>	<b>3.1148</b>	<b>6.4200e-003</b>	<b>1.0141</b>	<b>0.2392</b>	<b>1.2533</b>	<b>0.4619</b>	<b>0.2209</b>	<b>0.6828</b>	<b>0.0000</b>	<b>568.4285</b>	<b>568.4285</b>	<b>0.1539</b>	<b>0.0000</b>	<b>571.4881</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-28-2020	4-27-2020	1.1898	1.1898

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2	4-28-2020	7-27-2020	1.3395	1.3395
3	7-28-2020	10-27-2020	1.6771	1.6771
4	10-28-2020	1-27-2021	1.7607	1.7607
5	1-28-2021	4-27-2021	1.4836	1.4836
6	4-28-2021	7-27-2021	0.7605	0.7605
7	7-28-2021	10-27-2021	0.7698	0.7698
8	10-28-2021	1-27-2022	0.7505	0.7505
9	1-28-2022	4-27-2022	0.6823	0.6823
10	4-28-2022	7-27-2022	0.6879	0.6879
11	7-28-2022	10-27-2022	0.6963	0.6963
12	10-28-2022	1-27-2023	0.6774	0.6774
13	1-28-2023	4-27-2023	0.6127	0.6127
14	4-28-2023	7-27-2023	0.6179	0.6179
15	7-28-2023	10-27-2023	0.6254	0.6254
16	10-28-2023	1-27-2024	0.6164	0.6164
17	1-28-2024	4-27-2024	0.5837	0.5837
18	4-28-2024	7-27-2024	0.5821	0.5821
19	7-28-2024	10-27-2024	0.5892	0.5892
20	10-28-2024	1-27-2025	0.5798	0.5798
21	1-28-2025	4-27-2025	0.5408	0.5408
22	4-28-2025	7-27-2025	0.5454	0.5454
23	7-28-2025	10-27-2025	0.5520	0.5520
24	10-28-2025	1-27-2026	0.5529	0.5529
25	1-28-2026	4-27-2026	0.5392	0.5392
26	4-28-2026	7-27-2026	0.5438	0.5438
27	7-28-2026	10-27-2026	0.5504	0.5504
28	10-28-2026	1-27-2027	0.5512	0.5512

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29	1-28-2027	4-27-2027	0.4456	0.4456
30	4-28-2027	7-27-2027	0.3103	0.3103
31	7-28-2027	10-27-2027	1.7289	1.7289
32	10-28-2027	1-27-2028	2.2413	2.2413
		Highest	2.2413	2.2413

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	2.5554	0.0256	2.2178	1.2000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	3.6386	3.6386	3.4600e-003	0.0000	3.7252
Energy	0.0685	0.5851	0.2490	3.7300e-003		0.0473	0.0473		0.0473	0.0473	0.0000	805.3685	805.3685	0.0184	0.0135	809.8535
Mobile	0.3497	3.6987	3.8773	0.0250	2.4484	0.0103	2.4587	0.6577	9.6300e-003	0.6674	0.0000	2,332.9737	2,332.9737	0.0846	0.0000	2,335.0875
Waste						0.0000	0.0000		0.0000	0.0000	54.8076	0.0000	54.8076	3.2390	0.0000	135.7834
Water						0.0000	0.0000		0.0000	0.0000	4.9609	6.8302	11.7911	0.5098	0.0121	28.1392
<b>Total</b>	<b>2.9736</b>	<b>4.3093</b>	<b>6.3440</b>	<b>0.0289</b>	<b>2.4484</b>	<b>0.0699</b>	<b>2.5183</b>	<b>0.6577</b>	<b>0.0693</b>	<b>0.7270</b>	<b>59.7685</b>	<b>3,148.8110</b>	<b>3,208.5795</b>	<b>3.8553</b>	<b>0.0256</b>	<b>3,312.5888</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.5554	0.0256	2.2178	1.2000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	3.6386	3.6386	3.4600e-003	0.0000	3.7252
Energy	0.0685	0.5851	0.2490	3.7300e-003		0.0473	0.0473		0.0473	0.0473	0.0000	774.6218	774.6218	0.0171	0.0133	778.9965
Mobile	0.3497	3.6987	3.8773	0.0250	2.4484	0.0103	2.4587	0.6577	9.6300e-003	0.6674	0.0000	2,332.9737	2,332.9737	0.0846	0.0000	2,335.0875
Waste						0.0000	0.0000		0.0000	0.0000	54.8076	0.0000	54.8076	3.2390	0.0000	135.7834
Water						0.0000	0.0000		0.0000	0.0000	4.9609	6.8302	11.7911	0.5098	0.0121	28.1392
<b>Total</b>	<b>2.9736</b>	<b>4.3093</b>	<b>6.3440</b>	<b>0.0289</b>	<b>2.4484</b>	<b>0.0699</b>	<b>2.5183</b>	<b>0.6577</b>	<b>0.0693</b>	<b>0.7270</b>	<b>59.7685</b>	<b>3,118.0643</b>	<b>3,177.8328</b>	<b>3.8540</b>	<b>0.0253</b>	<b>3,281.7318</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.98</b>	<b>0.96</b>	<b>0.03</b>	<b>1.02</b>	<b>0.93</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/28/2020	6/15/2020	5	100	
2	Site Preparation	Site Preparation	6/16/2020	9/7/2020	5	60	
3	Grading	Grading	9/8/2020	4/12/2021	5	155	
4	Building Construction	Building Construction	4/13/2021	3/22/2027	5	1550	
5	Paving	Paving	3/23/2027	8/23/2027	5	110	
6	Architectural Coating	Architectural Coating	8/24/2027	1/24/2028	5	110	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 387.5**

**Acres of Paving: 0**

**Residential Indoor: 1,093,500; Residential Outdoor: 364,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**



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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	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
Grading	Scrapers	2	8.00	367	0.48
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

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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	0.00	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	108.00	32.00	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	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1656	1.6601	1.0877	1.9400e-003		0.0829	0.0829		0.0771	0.0771	0.0000	169.9930	169.9930	0.0480	0.0000	171.1927
<b>Total</b>	<b>0.1656</b>	<b>1.6601</b>	<b>1.0877</b>	<b>1.9400e-003</b>	<b>0.0000</b>	<b>0.0829</b>	<b>0.0829</b>	<b>0.0000</b>	<b>0.0771</b>	<b>0.0771</b>	<b>0.0000</b>	<b>169.9930</b>	<b>169.9930</b>	<b>0.0480</b>	<b>0.0000</b>	<b>171.1927</b>

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**3.2 Demolition - 2020**

**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	2.5900e-003	1.9100e-003	0.0196	6.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.2714	5.2714	1.4000e-004	0.0000	5.2748
<b>Total</b>	<b>2.5900e-003</b>	<b>1.9100e-003</b>	<b>0.0196</b>	<b>6.0000e-005</b>	<b>5.9300e-003</b>	<b>4.0000e-005</b>	<b>5.9700e-003</b>	<b>1.5800e-003</b>	<b>4.0000e-005</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>5.2714</b>	<b>5.2714</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.2748</b>

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1656	1.6601	1.0877	1.9400e-003		0.0829	0.0829		0.0771	0.0771	0.0000	169.9928	169.9928	0.0480	0.0000	171.1925
<b>Total</b>	<b>0.1656</b>	<b>1.6601</b>	<b>1.0877</b>	<b>1.9400e-003</b>	<b>0.0000</b>	<b>0.0829</b>	<b>0.0829</b>	<b>0.0000</b>	<b>0.0771</b>	<b>0.0771</b>	<b>0.0000</b>	<b>169.9928</b>	<b>169.9928</b>	<b>0.0480</b>	<b>0.0000</b>	<b>171.1925</b>

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**3.2 Demolition - 2020**

**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	2.5900e-003	1.9100e-003	0.0196	6.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.2714	5.2714	1.4000e-004	0.0000	5.2748
<b>Total</b>	<b>2.5900e-003</b>	<b>1.9100e-003</b>	<b>0.0196</b>	<b>6.0000e-005</b>	<b>5.9300e-003</b>	<b>4.0000e-005</b>	<b>5.9700e-003</b>	<b>1.5800e-003</b>	<b>4.0000e-005</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>5.2714</b>	<b>5.2714</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.2748</b>

**3.3 Site Preparation - 2020**

**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					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1223	1.2725	0.6454	1.1400e-003		0.0659	0.0659		0.0607	0.0607	0.0000	100.2920	100.2920	0.0324	0.0000	101.1030
<b>Total</b>	<b>0.1223</b>	<b>1.2725</b>	<b>0.6454</b>	<b>1.1400e-003</b>	<b>0.5420</b>	<b>0.0659</b>	<b>0.6079</b>	<b>0.2979</b>	<b>0.0607</b>	<b>0.3586</b>	<b>0.0000</b>	<b>100.2920</b>	<b>100.2920</b>	<b>0.0324</b>	<b>0.0000</b>	<b>101.1030</b>

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**3.3 Site Preparation - 2020**

**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	1.8700e-003	1.3800e-003	0.0141	4.0000e-005	4.2700e-003	3.0000e-005	4.3000e-003	1.1400e-003	3.0000e-005	1.1600e-003	0.0000	3.7954	3.7954	1.0000e-004	0.0000	3.7979
<b>Total</b>	<b>1.8700e-003</b>	<b>1.3800e-003</b>	<b>0.0141</b>	<b>4.0000e-005</b>	<b>4.2700e-003</b>	<b>3.0000e-005</b>	<b>4.3000e-003</b>	<b>1.1400e-003</b>	<b>3.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>3.7954</b>	<b>3.7954</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.7979</b>

**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					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1223	1.2725	0.6454	1.1400e-003		0.0659	0.0659		0.0607	0.0607	0.0000	100.2919	100.2919	0.0324	0.0000	101.1028
<b>Total</b>	<b>0.1223</b>	<b>1.2725</b>	<b>0.6454</b>	<b>1.1400e-003</b>	<b>0.5420</b>	<b>0.0659</b>	<b>0.6079</b>	<b>0.2979</b>	<b>0.0607</b>	<b>0.3586</b>	<b>0.0000</b>	<b>100.2919</b>	<b>100.2919</b>	<b>0.0324</b>	<b>0.0000</b>	<b>101.1028</b>

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**3.3 Site Preparation - 2020**

**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	1.8700e-003	1.3800e-003	0.0141	4.0000e-005	4.2700e-003	3.0000e-005	4.3000e-003	1.1400e-003	3.0000e-005	1.1600e-003	0.0000	3.7954	3.7954	1.0000e-004	0.0000	3.7979
<b>Total</b>	<b>1.8700e-003</b>	<b>1.3800e-003</b>	<b>0.0141</b>	<b>4.0000e-005</b>	<b>4.2700e-003</b>	<b>3.0000e-005</b>	<b>4.3000e-003</b>	<b>1.1400e-003</b>	<b>3.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>3.7954</b>	<b>3.7954</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.7979</b>

**3.4 Grading - 2020**

**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					0.4554	0.0000	0.4554	0.1596	0.0000	0.1596	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1847	2.0832	1.3263	2.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	226.1098	226.1098	0.0731	0.0000	227.9380
<b>Total</b>	<b>0.1847</b>	<b>2.0832</b>	<b>1.3263</b>	<b>2.5700e-003</b>	<b>0.4554</b>	<b>0.0902</b>	<b>0.5456</b>	<b>0.1596</b>	<b>0.0830</b>	<b>0.2426</b>	<b>0.0000</b>	<b>226.1098</b>	<b>226.1098</b>	<b>0.0731</b>	<b>0.0000</b>	<b>227.9380</b>

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**3.4 Grading - 2020**

**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	2.8700e-003	2.1200e-003	0.0217	6.0000e-005	6.5600e-003	5.0000e-005	6.6100e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	5.8337	5.8337	1.5000e-004	0.0000	5.8375
<b>Total</b>	<b>2.8700e-003</b>	<b>2.1200e-003</b>	<b>0.0217</b>	<b>6.0000e-005</b>	<b>6.5600e-003</b>	<b>5.0000e-005</b>	<b>6.6100e-003</b>	<b>1.7500e-003</b>	<b>4.0000e-005</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>5.8337</b>	<b>5.8337</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>5.8375</b>

**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					0.4554	0.0000	0.4554	0.1596	0.0000	0.1596	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1847	2.0832	1.3263	2.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	226.1096	226.1096	0.0731	0.0000	227.9378
<b>Total</b>	<b>0.1847</b>	<b>2.0832</b>	<b>1.3263</b>	<b>2.5700e-003</b>	<b>0.4554</b>	<b>0.0902</b>	<b>0.5456</b>	<b>0.1596</b>	<b>0.0830</b>	<b>0.2426</b>	<b>0.0000</b>	<b>226.1096</b>	<b>226.1096</b>	<b>0.0731</b>	<b>0.0000</b>	<b>227.9378</b>

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**3.4 Grading - 2020**

**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	2.8700e-003	2.1200e-003	0.0217	6.0000e-005	6.5600e-003	5.0000e-005	6.6100e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	5.8337	5.8337	1.5000e-004	0.0000	5.8375
<b>Total</b>	<b>2.8700e-003</b>	<b>2.1200e-003</b>	<b>0.0217</b>	<b>6.0000e-005</b>	<b>6.5600e-003</b>	<b>5.0000e-005</b>	<b>6.6100e-003</b>	<b>1.7500e-003</b>	<b>4.0000e-005</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>5.8337</b>	<b>5.8337</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>5.8375</b>

**3.4 Grading - 2021**

**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					0.4223	0.0000	0.4223	0.1414	0.0000	0.1414	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1509	1.6704	1.1116	2.2300e-003		0.0715	0.0715		0.0658	0.0658	0.0000	196.1819	196.1819	0.0635	0.0000	197.7682
<b>Total</b>	<b>0.1509</b>	<b>1.6704</b>	<b>1.1116</b>	<b>2.2300e-003</b>	<b>0.4223</b>	<b>0.0715</b>	<b>0.4937</b>	<b>0.1414</b>	<b>0.0658</b>	<b>0.2071</b>	<b>0.0000</b>	<b>196.1819</b>	<b>196.1819</b>	<b>0.0635</b>	<b>0.0000</b>	<b>197.7682</b>



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**3.4 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-003	1.6400e-003	0.0172	5.0000e-005	5.6900e-003	4.0000e-005	5.7300e-003	1.5100e-003	4.0000e-005	1.5500e-003	0.0000	4.8850	4.8850	1.2000e-004	0.0000	4.8879
<b>Total</b>	<b>2.3000e-003</b>	<b>1.6400e-003</b>	<b>0.0172</b>	<b>5.0000e-005</b>	<b>5.6900e-003</b>	<b>4.0000e-005</b>	<b>5.7300e-003</b>	<b>1.5100e-003</b>	<b>4.0000e-005</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>4.8850</b>	<b>4.8850</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.8879</b>

**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					0.4223	0.0000	0.4223	0.1414	0.0000	0.1414	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1509	1.6704	1.1116	2.2300e-003		0.0715	0.0715		0.0658	0.0658	0.0000	196.1817	196.1817	0.0635	0.0000	197.7679
<b>Total</b>	<b>0.1509</b>	<b>1.6704</b>	<b>1.1116</b>	<b>2.2300e-003</b>	<b>0.4223</b>	<b>0.0715</b>	<b>0.4937</b>	<b>0.1414</b>	<b>0.0658</b>	<b>0.2071</b>	<b>0.0000</b>	<b>196.1817</b>	<b>196.1817</b>	<b>0.0635</b>	<b>0.0000</b>	<b>197.7679</b>

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**3.4 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-003	1.6400e-003	0.0172	5.0000e-005	5.6900e-003	4.0000e-005	5.7300e-003	1.5100e-003	4.0000e-005	1.5500e-003	0.0000	4.8850	4.8850	1.2000e-004	0.0000	4.8879
<b>Total</b>	<b>2.3000e-003</b>	<b>1.6400e-003</b>	<b>0.0172</b>	<b>5.0000e-005</b>	<b>5.6900e-003</b>	<b>4.0000e-005</b>	<b>5.7300e-003</b>	<b>1.5100e-003</b>	<b>4.0000e-005</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>4.8850</b>	<b>4.8850</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.8879</b>

**3.5 Building Construction - 2021**

**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	0.1796	1.6473	1.5664	2.5400e-003		0.0906	0.0906		0.0852	0.0852	0.0000	218.8972	218.8972	0.0528	0.0000	220.2175
<b>Total</b>	<b>0.1796</b>	<b>1.6473</b>	<b>1.5664</b>	<b>2.5400e-003</b>		<b>0.0906</b>	<b>0.0906</b>		<b>0.0852</b>	<b>0.0852</b>	<b>0.0000</b>	<b>218.8972</b>	<b>218.8972</b>	<b>0.0528</b>	<b>0.0000</b>	<b>220.2175</b>

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**3.5 Building Construction - 2021**

**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	9.3600e-003	0.3235	0.0685	8.3000e-004	0.0199	6.7000e-004	0.0205	5.7500e-003	6.5000e-004	6.3900e-003	0.0000	79.2199	79.2199	4.3500e-003	0.0000	79.3287
Worker	0.0326	0.0232	0.2433	7.7000e-004	0.0807	5.4000e-004	0.0812	0.0215	5.0000e-004	0.0220	0.0000	69.2449	69.2449	1.6500e-003	0.0000	69.2863
<b>Total</b>	<b>0.0420</b>	<b>0.3467</b>	<b>0.3118</b>	<b>1.6000e-003</b>	<b>0.1006</b>	<b>1.2100e-003</b>	<b>0.1018</b>	<b>0.0272</b>	<b>1.1500e-003</b>	<b>0.0284</b>	<b>0.0000</b>	<b>148.4648</b>	<b>148.4648</b>	<b>6.0000e-003</b>	<b>0.0000</b>	<b>148.6150</b>

**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	0.1796	1.6473	1.5664	2.5400e-003		0.0906	0.0906		0.0852	0.0852	0.0000	218.8970	218.8970	0.0528	0.0000	220.2172
<b>Total</b>	<b>0.1796</b>	<b>1.6473</b>	<b>1.5664</b>	<b>2.5400e-003</b>		<b>0.0906</b>	<b>0.0906</b>		<b>0.0852</b>	<b>0.0852</b>	<b>0.0000</b>	<b>218.8970</b>	<b>218.8970</b>	<b>0.0528</b>	<b>0.0000</b>	<b>220.2172</b>

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**3.5 Building Construction - 2021**

**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	9.3600e-003	0.3235	0.0685	8.3000e-004	0.0199	6.7000e-004	0.0205	5.7500e-003	6.5000e-004	6.3900e-003	0.0000	79.2199	79.2199	4.3500e-003	0.0000	79.3287
Worker	0.0326	0.0232	0.2433	7.7000e-004	0.0807	5.4000e-004	0.0812	0.0215	5.0000e-004	0.0220	0.0000	69.2449	69.2449	1.6500e-003	0.0000	69.2863
<b>Total</b>	<b>0.0420</b>	<b>0.3467</b>	<b>0.3118</b>	<b>1.6000e-003</b>	<b>0.1006</b>	<b>1.2100e-003</b>	<b>0.1018</b>	<b>0.0272</b>	<b>1.1500e-003</b>	<b>0.0284</b>	<b>0.0000</b>	<b>148.4648</b>	<b>148.4648</b>	<b>6.0000e-003</b>	<b>0.0000</b>	<b>148.6150</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2428</b>	<b>301.2428</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0471</b>

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**3.5 Building Construction - 2022**

**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	0.0120	0.4226	0.0883	1.1300e-003	0.0273	8.0000e-004	0.0281	7.9000e-003	7.7000e-004	8.6700e-003	0.0000	107.9141	107.9141	5.7200e-003	0.0000	108.0572
Worker	0.0416	0.0286	0.3064	1.0100e-003	0.1110	7.3000e-004	0.1117	0.0295	6.7000e-004	0.0302	0.0000	91.7860	91.7860	2.0400e-003	0.0000	91.8370
<b>Total</b>	<b>0.0537</b>	<b>0.4512</b>	<b>0.3946</b>	<b>2.1400e-003</b>	<b>0.1383</b>	<b>1.5300e-003</b>	<b>0.1399</b>	<b>0.0374</b>	<b>1.4400e-003</b>	<b>0.0389</b>	<b>0.0000</b>	<b>199.7002</b>	<b>199.7002</b>	<b>7.7600e-003</b>	<b>0.0000</b>	<b>199.8941</b>

**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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2425</b>	<b>301.2425</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0467</b>

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**3.5 Building Construction - 2022**

**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	0.0120	0.4226	0.0883	1.1300e-003	0.0273	8.0000e-004	0.0281	7.9000e-003	7.7000e-004	8.6700e-003	0.0000	107.9141	107.9141	5.7200e-003	0.0000	108.0572
Worker	0.0416	0.0286	0.3064	1.0100e-003	0.1110	7.3000e-004	0.1117	0.0295	6.7000e-004	0.0302	0.0000	91.7860	91.7860	2.0400e-003	0.0000	91.8370
<b>Total</b>	<b>0.0537</b>	<b>0.4512</b>	<b>0.3946</b>	<b>2.1400e-003</b>	<b>0.1383</b>	<b>1.5300e-003</b>	<b>0.1399</b>	<b>0.0374</b>	<b>1.4400e-003</b>	<b>0.0389</b>	<b>0.0000</b>	<b>199.7002</b>	<b>199.7002</b>	<b>7.7600e-003</b>	<b>0.0000</b>	<b>199.8941</b>

**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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3462</b>	<b>301.3462</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1383</b>

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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	8.8200e-003	0.3272	0.0772	1.0900e-003	0.0273	3.5000e-004	0.0277	7.9000e-003	3.3000e-004	8.2400e-003	0.0000	104.8440	104.8440	4.5700e-003	0.0000	104.9582
Worker	0.0388	0.0257	0.2805	9.8000e-004	0.1110	7.1000e-004	0.1117	0.0295	6.5000e-004	0.0302	0.0000	88.2756	88.2756	1.8200e-003	0.0000	88.3212
<b>Total</b>	<b>0.0476</b>	<b>0.3528</b>	<b>0.3577</b>	<b>2.0700e-003</b>	<b>0.1383</b>	<b>1.0600e-003</b>	<b>0.1394</b>	<b>0.0374</b>	<b>9.8000e-004</b>	<b>0.0384</b>	<b>0.0000</b>	<b>193.1197</b>	<b>193.1197</b>	<b>6.3900e-003</b>	<b>0.0000</b>	<b>193.2794</b>

**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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3458</b>	<b>301.3458</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1380</b>

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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	8.8200e-003	0.3272	0.0772	1.0900e-003	0.0273	3.5000e-004	0.0277	7.9000e-003	3.3000e-004	8.2400e-003	0.0000	104.8440	104.8440	4.5700e-003	0.0000	104.9582
Worker	0.0388	0.0257	0.2805	9.8000e-004	0.1110	7.1000e-004	0.1117	0.0295	6.5000e-004	0.0302	0.0000	88.2756	88.2756	1.8200e-003	0.0000	88.3212
<b>Total</b>	<b>0.0476</b>	<b>0.3528</b>	<b>0.3577</b>	<b>2.0700e-003</b>	<b>0.1383</b>	<b>1.0600e-003</b>	<b>0.1394</b>	<b>0.0374</b>	<b>9.8000e-004</b>	<b>0.0384</b>	<b>0.0000</b>	<b>193.1197</b>	<b>193.1197</b>	<b>6.3900e-003</b>	<b>0.0000</b>	<b>193.2794</b>

**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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7223</b>	<b>303.7223</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5179</b>



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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	8.6300e-003	0.3273	0.0745	1.0900e-003	0.0275	3.4000e-004	0.0279	7.9600e-003	3.3000e-004	8.2900e-003	0.0000	104.9188	104.9188	4.5500e-003	0.0000	105.0325
Worker	0.0365	0.0233	0.2609	9.4000e-004	0.1119	7.0000e-004	0.1126	0.0298	6.5000e-004	0.0304	0.0000	85.4289	85.4289	1.6500e-003	0.0000	85.4702
<b>Total</b>	<b>0.0452</b>	<b>0.3506</b>	<b>0.3354</b>	<b>2.0300e-003</b>	<b>0.1394</b>	<b>1.0400e-003</b>	<b>0.1404</b>	<b>0.0377</b>	<b>9.8000e-004</b>	<b>0.0387</b>	<b>0.0000</b>	<b>190.3477</b>	<b>190.3477</b>	<b>6.2000e-003</b>	<b>0.0000</b>	<b>190.5027</b>

**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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7220</b>	<b>303.7220</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5175</b>

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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	8.6300e-003	0.3273	0.0745	1.0900e-003	0.0275	3.4000e-004	0.0279	7.9600e-003	3.3000e-004	8.2900e-003	0.0000	104.9188	104.9188	4.5500e-003	0.0000	105.0325
Worker	0.0365	0.0233	0.2609	9.4000e-004	0.1119	7.0000e-004	0.1126	0.0298	6.5000e-004	0.0304	0.0000	85.4289	85.4289	1.6500e-003	0.0000	85.4702
<b>Total</b>	<b>0.0452</b>	<b>0.3506</b>	<b>0.3354</b>	<b>2.0300e-003</b>	<b>0.1394</b>	<b>1.0400e-003</b>	<b>0.1404</b>	<b>0.0377</b>	<b>9.8000e-004</b>	<b>0.0387</b>	<b>0.0000</b>	<b>190.3477</b>	<b>190.3477</b>	<b>6.2000e-003</b>	<b>0.0000</b>	<b>190.5027</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.5 Building Construction - 2025**

**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	8.3700e-003	0.3234	0.0715	1.0800e-003	0.0274	3.4000e-004	0.0278	7.9300e-003	3.2000e-004	8.2600e-003	0.0000	103.8325	103.8325	4.4600e-003	0.0000	103.9441
Worker	0.0343	0.0211	0.2402	9.0000e-004	0.1114	6.9000e-004	0.1121	0.0296	6.3000e-004	0.0303	0.0000	81.6284	81.6284	1.4900e-003	0.0000	81.6656
<b>Total</b>	<b>0.0426</b>	<b>0.3445</b>	<b>0.3117</b>	<b>1.9800e-003</b>	<b>0.1389</b>	<b>1.0300e-003</b>	<b>0.1399</b>	<b>0.0376</b>	<b>9.5000e-004</b>	<b>0.0385</b>	<b>0.0000</b>	<b>185.4609</b>	<b>185.4609</b>	<b>5.9500e-003</b>	<b>0.0000</b>	<b>185.6097</b>

**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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.5 Building Construction - 2025**

**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	8.3700e-003	0.3234	0.0715	1.0800e-003	0.0274	3.4000e-004	0.0278	7.9300e-003	3.2000e-004	8.2600e-003	0.0000	103.8325	103.8325	4.4600e-003	0.0000	103.9441
Worker	0.0343	0.0211	0.2402	9.0000e-004	0.1114	6.9000e-004	0.1121	0.0296	6.3000e-004	0.0303	0.0000	81.6284	81.6284	1.4900e-003	0.0000	81.6656
<b>Total</b>	<b>0.0426</b>	<b>0.3445</b>	<b>0.3117</b>	<b>1.9800e-003</b>	<b>0.1389</b>	<b>1.0300e-003</b>	<b>0.1399</b>	<b>0.0376</b>	<b>9.5000e-004</b>	<b>0.0385</b>	<b>0.0000</b>	<b>185.4609</b>	<b>185.4609</b>	<b>5.9500e-003</b>	<b>0.0000</b>	<b>185.6097</b>

**3.5 Building Construction - 2026**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.5 Building Construction - 2026**

**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	8.1800e-003	0.3209	0.0695	1.0800e-003	0.0274	3.3000e-004	0.0278	7.9400e-003	3.2000e-004	8.2500e-003	0.0000	103.2203	103.2203	4.4100e-003	0.0000	103.3305
Worker	0.0324	0.0192	0.2234	8.7000e-004	0.1114	6.7000e-004	0.1121	0.0296	6.1000e-004	0.0303	0.0000	78.5908	78.5908	1.3500e-003	0.0000	78.6247
<b>Total</b>	<b>0.0406</b>	<b>0.3401</b>	<b>0.2929</b>	<b>1.9500e-003</b>	<b>0.1389</b>	<b>1.0000e-003</b>	<b>0.1399</b>	<b>0.0376</b>	<b>9.3000e-004</b>	<b>0.0385</b>	<b>0.0000</b>	<b>181.8111</b>	<b>181.8111</b>	<b>5.7600e-003</b>	<b>0.0000</b>	<b>181.9552</b>

**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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.5 Building Construction - 2026**

**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	8.1800e-003	0.3209	0.0695	1.0800e-003	0.0274	3.3000e-004	0.0278	7.9400e-003	3.2000e-004	8.2500e-003	0.0000	103.2203	103.2203	4.4100e-003	0.0000	103.3305
Worker	0.0324	0.0192	0.2234	8.7000e-004	0.1114	6.7000e-004	0.1121	0.0296	6.1000e-004	0.0303	0.0000	78.5908	78.5908	1.3500e-003	0.0000	78.6247
<b>Total</b>	<b>0.0406</b>	<b>0.3401</b>	<b>0.2929</b>	<b>1.9500e-003</b>	<b>0.1389</b>	<b>1.0000e-003</b>	<b>0.1399</b>	<b>0.0376</b>	<b>9.3000e-004</b>	<b>0.0385</b>	<b>0.0000</b>	<b>181.8111</b>	<b>181.8111</b>	<b>5.7600e-003</b>	<b>0.0000</b>	<b>181.9552</b>

**3.5 Building Construction - 2027**

**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	0.0390	0.3554	0.4584	7.7000e-004		0.0150	0.0150		0.0141	0.0141	0.0000	66.0970	66.0970	0.0155	0.0000	66.4855
<b>Total</b>	<b>0.0390</b>	<b>0.3554</b>	<b>0.4584</b>	<b>7.7000e-004</b>		<b>0.0150</b>	<b>0.0150</b>		<b>0.0141</b>	<b>0.0141</b>	<b>0.0000</b>	<b>66.0970</b>	<b>66.0970</b>	<b>0.0155</b>	<b>0.0000</b>	<b>66.4855</b>

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**3.5 Building Construction - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7500e-003	0.0695	0.0148	2.3000e-004	5.9900e-003	7.0000e-005	6.0600e-003	1.7300e-003	7.0000e-005	1.8000e-003	0.0000	22.4209	22.4209	9.5000e-004	0.0000	22.4447
Worker	6.7000e-003	3.8500e-003	0.0456	1.8000e-004	0.0243	1.4000e-004	0.0245	6.4700e-003	1.3000e-004	6.6000e-003	0.0000	16.5737	16.5737	2.7000e-004	0.0000	16.5804
<b>Total</b>	<b>8.4500e-003</b>	<b>0.0733</b>	<b>0.0604</b>	<b>4.1000e-004</b>	<b>0.0303</b>	<b>2.1000e-004</b>	<b>0.0305</b>	<b>8.2000e-003</b>	<b>2.0000e-004</b>	<b>8.4000e-003</b>	<b>0.0000</b>	<b>38.9945</b>	<b>38.9945</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>39.0251</b>

**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	0.0390	0.3554	0.4584	7.7000e-004		0.0150	0.0150		0.0141	0.0141	0.0000	66.0970	66.0970	0.0155	0.0000	66.4854
<b>Total</b>	<b>0.0390</b>	<b>0.3554</b>	<b>0.4584</b>	<b>7.7000e-004</b>		<b>0.0150</b>	<b>0.0150</b>		<b>0.0141</b>	<b>0.0141</b>	<b>0.0000</b>	<b>66.0970</b>	<b>66.0970</b>	<b>0.0155</b>	<b>0.0000</b>	<b>66.4854</b>

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**3.5 Building Construction - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7500e-003	0.0695	0.0148	2.3000e-004	5.9900e-003	7.0000e-005	6.0600e-003	1.7300e-003	7.0000e-005	1.8000e-003	0.0000	22.4209	22.4209	9.5000e-004	0.0000	22.4447
Worker	6.7000e-003	3.8500e-003	0.0456	1.8000e-004	0.0243	1.4000e-004	0.0245	6.4700e-003	1.3000e-004	6.6000e-003	0.0000	16.5737	16.5737	2.7000e-004	0.0000	16.5804
<b>Total</b>	<b>8.4500e-003</b>	<b>0.0733</b>	<b>0.0604</b>	<b>4.1000e-004</b>	<b>0.0303</b>	<b>2.1000e-004</b>	<b>0.0305</b>	<b>8.2000e-003</b>	<b>2.0000e-004</b>	<b>8.4000e-003</b>	<b>0.0000</b>	<b>38.9945</b>	<b>38.9945</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>39.0251</b>

**3.6 Paving - 2027**

**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	0.0503	0.4720	0.8018	1.2500e-003		0.0230	0.0230		0.0212	0.0212	0.0000	110.1059	110.1059	0.0356	0.0000	110.9962
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0503</b>	<b>0.4720</b>	<b>0.8018</b>	<b>1.2500e-003</b>		<b>0.0230</b>	<b>0.0230</b>		<b>0.0212</b>	<b>0.0212</b>	<b>0.0000</b>	<b>110.1059</b>	<b>110.1059</b>	<b>0.0356</b>	<b>0.0000</b>	<b>110.9962</b>



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**3.6 Paving - 2027**

**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	1.8000e-003	1.0300e-003	0.0122	5.0000e-005	6.5200e-003	4.0000e-005	6.5600e-003	1.7400e-003	3.0000e-005	1.7700e-003	0.0000	4.4423	4.4423	7.0000e-005	0.0000	4.4441
<b>Total</b>	<b>1.8000e-003</b>	<b>1.0300e-003</b>	<b>0.0122</b>	<b>5.0000e-005</b>	<b>6.5200e-003</b>	<b>4.0000e-005</b>	<b>6.5600e-003</b>	<b>1.7400e-003</b>	<b>3.0000e-005</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>4.4423</b>	<b>4.4423</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>4.4441</b>

**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	0.0503	0.4720	0.8018	1.2500e-003		0.0230	0.0230		0.0212	0.0212	0.0000	110.1058	110.1058	0.0356	0.0000	110.9960
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0503</b>	<b>0.4720</b>	<b>0.8018</b>	<b>1.2500e-003</b>		<b>0.0230</b>	<b>0.0230</b>		<b>0.0212</b>	<b>0.0212</b>	<b>0.0000</b>	<b>110.1058</b>	<b>110.1058</b>	<b>0.0356</b>	<b>0.0000</b>	<b>110.9960</b>

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**3.6 Paving - 2027**

**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	1.8000e-003	1.0300e-003	0.0122	5.0000e-005	6.5200e-003	4.0000e-005	6.5600e-003	1.7400e-003	3.0000e-005	1.7700e-003	0.0000	4.4423	4.4423	7.0000e-005	0.0000	4.4441
<b>Total</b>	<b>1.8000e-003</b>	<b>1.0300e-003</b>	<b>0.0122</b>	<b>5.0000e-005</b>	<b>6.5200e-003</b>	<b>4.0000e-005</b>	<b>6.5600e-003</b>	<b>1.7400e-003</b>	<b>3.0000e-005</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>4.4423</b>	<b>4.4423</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>4.4441</b>

**3.7 Architectural Coating - 2027**

**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	3.2484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0300e-003	0.0538	0.0850	1.4000e-004		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003	0.0000	12.0003	12.0003	6.5000e-004	0.0000	12.0167
<b>Total</b>	<b>3.2564</b>	<b>0.0538</b>	<b>0.0850</b>	<b>1.4000e-004</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>12.0003</b>	<b>12.0003</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>12.0167</b>

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**3.7 Architectural Coating - 2027**

**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	2.2500e-003	1.2900e-003	0.0153	6.0000e-005	8.1800e-003	5.0000e-005	8.2200e-003	2.1700e-003	4.0000e-005	2.2200e-003	0.0000	5.5676	5.5676	9.0000e-005	0.0000	5.5699
<b>Total</b>	<b>2.2500e-003</b>	<b>1.2900e-003</b>	<b>0.0153</b>	<b>6.0000e-005</b>	<b>8.1800e-003</b>	<b>5.0000e-005</b>	<b>8.2200e-003</b>	<b>2.1700e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>	<b>0.0000</b>	<b>5.5676</b>	<b>5.5676</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>5.5699</b>

**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	3.2484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0300e-003	0.0538	0.0850	1.4000e-004		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003	0.0000	12.0003	12.0003	6.5000e-004	0.0000	12.0166
<b>Total</b>	<b>3.2564</b>	<b>0.0538</b>	<b>0.0850</b>	<b>1.4000e-004</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>12.0003</b>	<b>12.0003</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>12.0166</b>

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**3.7 Architectural Coating - 2027**

**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	2.2500e-003	1.2900e-003	0.0153	6.0000e-005	8.1800e-003	5.0000e-005	8.2200e-003	2.1700e-003	4.0000e-005	2.2200e-003	0.0000	5.5676	5.5676	9.0000e-005	0.0000	5.5699
<b>Total</b>	<b>2.2500e-003</b>	<b>1.2900e-003</b>	<b>0.0153</b>	<b>6.0000e-005</b>	<b>8.1800e-003</b>	<b>5.0000e-005</b>	<b>8.2200e-003</b>	<b>2.1700e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>	<b>0.0000</b>	<b>5.5676</b>	<b>5.5676</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>5.5699</b>

**3.7 Architectural Coating - 2028**

**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	0.5529					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3700e-003	9.1600e-003	0.0145	2.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	2.0426	2.0426	1.1000e-004	0.0000	2.0454
<b>Total</b>	<b>0.5543</b>	<b>9.1600e-003</b>	<b>0.0145</b>	<b>2.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>2.0426</b>	<b>2.0426</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.0454</b>

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**3.7 Architectural Coating - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.0000e-004	2.4400e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	0.9179	0.9179	1.0000e-005	0.0000	0.9182
<b>Total</b>	<b>3.6000e-004</b>	<b>2.0000e-004</b>	<b>2.4400e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>0.9179</b>	<b>0.9179</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.9182</b>

**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	0.5529					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3700e-003	9.1600e-003	0.0145	2.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	2.0426	2.0426	1.1000e-004	0.0000	2.0454
<b>Total</b>	<b>0.5543</b>	<b>9.1600e-003</b>	<b>0.0145</b>	<b>2.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>2.0426</b>	<b>2.0426</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.0454</b>

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**3.7 Architectural Coating - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.0000e-004	2.4400e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	0.9179	0.9179	1.0000e-005	0.0000	0.9182
<b>Total</b>	<b>3.6000e-004</b>	<b>2.0000e-004</b>	<b>2.4400e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>0.9179</b>	<b>0.9179</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.9182</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Fairview Specific Plan - Alameda County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3497	3.6987	3.8773	0.0250	2.4484	0.0103	2.4587	0.6577	9.6300e-003	0.6674	0.0000	2,332.9737	2,332.9737	0.0846	0.0000	2,335.0875
Unmitigated	0.3497	3.6987	3.8773	0.0250	2.4484	0.0103	2.4587	0.6577	9.6300e-003	0.6674	0.0000	2,332.9737	2,332.9737	0.0846	0.0000	2,335.0875

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	2,856.00	2,973.00	2586.00	6,545,757	6,545,757
Total	2,856.00	2,973.00	2,586.00	6,545,757	6,545,757

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
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633

5.0 Energy Detail

Historical Energy Use: N

Fairview Specific Plan - Alameda County, Annual

**5.1 Mitigation Measures Energy**

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive 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	97.0547	97.0547	4.1200e-003	8.2000e-004	97.4030
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	127.8014	127.8014	5.4200e-003	1.0800e-003	128.2600
NaturalGas Mitigated	0.0685	0.5851	0.2490	3.7300e-003		0.0473	0.0473		0.0473	0.0473	0.0000	677.5671	677.5671	0.0130	0.0124	681.5936
NaturalGas Unmitigated	0.0685	0.5851	0.2490	3.7300e-003		0.0473	0.0473		0.0473	0.0473	0.0000	677.5671	677.5671	0.0130	0.0124	681.5936



Fairview Specific Plan - Alameda County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.26971e+007	0.0685	0.5851	0.2490	3.7300e-003		0.0473	0.0473		0.0473	0.0473	0.0000	677.5671	677.5671	0.0130	0.0124	681.5936
<b>Total</b>		<b>0.0685</b>	<b>0.5851</b>	<b>0.2490</b>	<b>3.7300e-003</b>		<b>0.0473</b>	<b>0.0473</b>		<b>0.0473</b>	<b>0.0473</b>	<b>0.0000</b>	<b>677.5671</b>	<b>677.5671</b>	<b>0.0130</b>	<b>0.0124</b>	<b>681.5936</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.26971e+007	0.0685	0.5851	0.2490	3.7300e-003		0.0473	0.0473		0.0473	0.0473	0.0000	677.5671	677.5671	0.0130	0.0124	681.5936
<b>Total</b>		<b>0.0685</b>	<b>0.5851</b>	<b>0.2490</b>	<b>3.7300e-003</b>		<b>0.0473</b>	<b>0.0473</b>		<b>0.0473</b>	<b>0.0473</b>	<b>0.0000</b>	<b>677.5671</b>	<b>677.5671</b>	<b>0.0130</b>	<b>0.0124</b>	<b>681.5936</b>

Fairview Specific Plan - Alameda County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	2.39018e+006	127.8014	5.4200e-003	1.0800e-003	128.2600
<b>Total</b>		<b>127.8014</b>	<b>5.4200e-003</b>	<b>1.0800e-003</b>	<b>128.2600</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.81514e+006	97.0547	4.1200e-003	8.2000e-004	97.4030
<b>Total</b>		<b>97.0547</b>	<b>4.1200e-003</b>	<b>8.2000e-004</b>	<b>97.4030</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Fairview Specific Plan - Alameda County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	2.5554	0.0256	2.2178	1.2000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	3.6386	3.6386	3.4600e-003	0.0000	3.7252
Unmitigated	2.5554	0.0256	2.2178	1.2000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	3.6386	3.6386	3.4600e-003	0.0000	3.7252

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	0.3801					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1090					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	0.0663	0.0256	2.2178	1.2000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	3.6386	3.6386	3.4600e-003	0.0000	3.7252
<b>Total</b>	<b>2.5554</b>	<b>0.0256</b>	<b>2.2178</b>	<b>1.2000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0124</b>	<b>0.0124</b>	<b>0.0000</b>	<b>3.6386</b>	<b>3.6386</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>3.7252</b>

Fairview Specific Plan - Alameda County, Annual

**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	0.3801					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1090					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	0.0663	0.0256	2.2178	1.2000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	3.6386	3.6386	3.4600e-003	0.0000	3.7252
<b>Total</b>	<b>2.5554</b>	<b>0.0256</b>	<b>2.2178</b>	<b>1.2000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0124</b>	<b>0.0124</b>	<b>0.0000</b>	<b>3.6386</b>	<b>3.6386</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>3.7252</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Fairview Specific Plan - Alameda County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.7911	0.5098	0.0121	28.1392
Unmitigated	11.7911	0.5098	0.0121	28.1392

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	15.637 / 12.3226	11.7911	0.5098	0.0121	28.1392
<b>Total</b>		<b>11.7911</b>	<b>0.5098</b>	<b>0.0121</b>	<b>28.1392</b>

Fairview Specific Plan - Alameda County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	15.637 / 12.3226	11.7911	0.5098	0.0121	28.1392
<b>Total</b>		<b>11.7911</b>	<b>0.5098</b>	<b>0.0121</b>	<b>28.1392</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	54.8076	3.2390	0.0000	135.7834
Unmitigated	54.8076	3.2390	0.0000	135.7834

Fairview Specific Plan - Alameda County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	270	54.8076	3.2390	0.0000	135.7834
<b>Total</b>		<b>54.8076</b>	<b>3.2390</b>	<b>0.0000</b>	<b>135.7834</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	270	54.8076	3.2390	0.0000	135.7834
<b>Total</b>		<b>54.8076</b>	<b>3.2390</b>	<b>0.0000</b>	<b>135.7834</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Fairview Specific Plan - Alameda County, Annual

**10.0 Stationary Equipment**

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**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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## N2O Operational GHG Emission Mobile Calculations

**Project Code & Title: Fairview Specific Plan**

Vehicle Population Breakdown*	
6244818	Gasoline vehicles
318131	Diesel vehicles
95.2%	Gasoline vehicle %
4.8%	Diesel vehicle %

VMT per Vehicle Type	
6545757	Project VMT (CalEEMod output)
6228459	Gasoline vehicle VMT
317298	Diesel vehicle VMT

Gasoline Vehicles	
95.2%	Gasoline vehicle %
3.6987	Tons per year mobile NOX emissions (annual output in CalEEMod)
3.52	Gasoline vehicle tons per year NOX emissions
0.1472	Tons per year N2O emissions for gasoline vehicles**
0.1335	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
25.76	Diesel average miles per gallon*
0.06211	grams per mile N2O for diesel vehicles
19708.2	grams per year N2O for diesel vehicles
0.0197082	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.1532	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
45.7	<b>CO2e emissions per year from N2O emissions from gasoline + diesel vehicles</b>

Sources
<p><b>*Vehicle population source:</b>                      EMFAC2017 (v1.0.2) Emissions Inventory                      Region Type: Air District                      Region: BAAQMD                      Calendar Year: 2040                      Season: Annual                      Vehicle Classification: EMFAC2011 Categories</p> <p><b>**Methodology source:</b>                      EMFAC2017 Volume III - Technical Documentation  <a href="https://www.arb.ca.gov/msei/emfac2011-faq.htm">https://www.arb.ca.gov/msei/emfac2011-faq.htm</a></p> <p><b>***GWP source:</b>                      Intergovernmental Panel on Climate Change (IPCC). 2007.                      AR4 Climate Change 2007: The Physical Science Basis.                      Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>

## APPENDIX B: SPECIAL STATUS SPECIES

Table 1 Special-Status Animal Species Know to Occur or with Potential to Occur within a Five-Mile Radius of the Plan Area

Scientific Name	Status		Habitat Requirements
	Federal/State	Global/State Rank	
Common Name	CDFW		
<b>Mammals (6)</b>			
<i>Antrozous pallidus</i> Pallid Bat	FS/— G5/S3 SSC		Deserts, grasslands, shrublands, woodlands, and forest. Most common in open, dry, habitats with rocky area for roosting. Roost must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.
<i>Eumops perotis</i> Western Mastiff Bat	—/— G5/S2 SSC		Many open habitats, including conifer and deciduous woodlands, grassland, and chaparral. Roosts in crevices in cliff faces and high buildings.
<i>Lasiurus cinereus</i> Hoary Bat	—/— G5/S4 —		Thought to prefer trees at the edge of clearings, but have been found in trees in heavy forests, open wooded glades, and shade trees along urban streets and in city parks.
<i>Neotoma fuscipes annectens</i> San Francisco Dusky-Footed Woodrat	—/— G5T2T3/S2S3 SSC		Evergreen or live oaks and other thick-leaved trees and shrubs.
<i>Reithrodontomys raviventris</i> Salt-Marsh Harvest Mouse	FE/SE G1G2/S1S2 FP		Salt marshes, in particular those that support dense stands of pickleweed and are adjacent to upland, salt-tolerant vegetation, for escape during high tides.
<i>Sorex vagrans halicoetes</i> Salt-Marsh Wandering Shrew	—/— G5T1/S1 SSC		Confined to small remnant stands of salt marsh found around the southern arm of the San Francisco Bay in San Mateo, Santa Clara, Alameda, and Contra Costa counties. The known elevational range extends from approximately six to nine feet.
<b>Birds (11)</b>			
<i>Accipiter cooperi</i> Cooper's Hawk	—/— G5/S3 WL		Mature forest, open woodlands, wood edges, river groves. Nests in coniferous, deciduous, and mixed woods, typically those with tall trees and with openings or edge habitat nearby. Also found in trees along rivers through open country, and increasingly in suburbs and cities where some tall trees exist for nest sites. In winter may be in fairly open country, especially in west.
<i>Accipiter striatus</i> Sharp-Shinned Hawk	—/— G5/S4 WL		Found in forests and around forest edges, and not found where trees are scarce or scattered, except when migrating. They require dense forest, ideally with a closed canopy, for breeding. Occupy a wide range of elevations, from sea level to near treeline. In the winter season, may be found around forest edges, in somewhat more open habitats than the dense forests they breed in, as well as in suburban areas with bird feeders.
<i>Aquila chrysaetos</i> Golden Eagle	—/— G5/S3 FP		Live in open and semi-open country featuring native vegetation across most of the Northern Hemisphere. Typically avoid developed areas and uninterrupted stretches of forest. They are found primarily in mountains up to 12,000 feet, canyonlands, rimrock terrain, and riverside cliffs and bluffs. Nesting habitat includes cliffs and steep escarpments in grassland, chaparral, shrubland, forest, and other vegetated areas.

<i>Scientific Name</i>	Status Federal/State Global/State Rank	Habitat Requirements
Common Name	CDFW	
<i>Ardea Herodias</i> Great Blue Heron	—/— G5/S4 S	Marshes, swamps, shores, tide flats. Very adaptable. Forages in any kind of calm fresh waters or slow-moving rivers, also in shallow coastal bays. Nests in trees or shrubs near water, sometimes on ground in areas free of predators.
<i>Athene cucularia</i> Burrowing Owl	—/— G5/S3 SSC	Open grassland, prairies, farmland, and airfields. Favors areas of flat open ground with very short grass or bare soil. Prairiedog towns once furnished much ideal habitat in west, but these are now scarce, and the owls are found on airports, golf courses, vacant lots, industrial parks, other open areas.
<i>Charadrius nivosus nivosus</i> Western Snowy Plover	FT/— G3T3/S2 SSC	Shores, peninsulas, offshore islands, bays, estuaries, and rivers of the United States' Pacific Coast.
<i>Dendroica petechial</i> Yellow Warbler	—/— G5/S3 SSC	Bushes, swamp edges, streams, gardens. Breeds in a variety of habitats in east, including woods and thickets along edges of streams, lakes, swamps, and marshes, favoring willows, alders, and other moisture-loving plants. Also in dryer second-growth woods, orchards, roadside thickets. In west, restricted to streamside thickets. In winter in the tropics, favors semi-open country, woodland edges, and towns.
<i>Geothlypis trichas sinuosa</i> Saltmarsh Common Yellowthroat	—/— G5T2/S2 SSC	Salt marshes. Breeding: Nests just above ground or over water, in thick herbaceous vegetation, often at base of shrub or sapling, sometimes higher in weeds or shrubs up to about 1 m.
<i>Laterallus jamaicensis coturniculus</i> California Black Rail	—/ST G3G4T1/S1 FP	Nests in high portions of salt marshes, shallow freshwater marshes, wet meadows, and flooded grassy vegetation.
<i>Melospiza melodia pusillula</i> Alameda Song Sparrow	—/— G5T2?/S1 FP	Inhabits tidal salt marshes that have an appropriate configuration of vegetation, water, and exposed ground. Vegetation is required for nesting sites, song perches, and concealment from predators.
<i>Sterna antillarum brownie</i> California Least Tern	FE/SE G4T2T3Q/S2 FP	Seacoasts, beaches, bays, estuaries, lagoons, lakes and rivers, breeding on sandy or gravelly beaches and banks of rivers or lakes, rarely on flat rooftops of buildings.
<b>Reptiles (2)</b>		
<i>Actinemys marmorata</i> Western Pond turtle	—/— G3G4/S3 SSC	Found in ponds, lakes, rivers, streams, creeks, marshes, and irrigation ditches, with abundant vegetation, and either rocky or muddy bottoms. Also found in woodland, forest, and grassland. In streams, prefers pools to shallower areas. Logs, rocks, cattail mats, and exposed banks are required for basking. May enter brackish water and seawater.
<i>Masticophis lateralis euryxanthus</i> Alameda Whipsnake	FT/ST G4T2/S2 —	Open areas in canyons, rocky hillsides, chaparral scrublands, open woodlands, pond edges, and stream courses.
<b>Amphibians (2)</b>		
<i>Ambystoma californiense</i> California Tiger Salamander	FT/ST G2G3/S2S3 SSC	Frequents grassland, oak savanna, and edges of mixed woodland and lower elevation coniferous forest.

<i>Scientific Name</i>	Status Federal/State Global/State Rank	Habitat Requirements
Common Name	CDFW	
<i>Rana draytonii</i> California Red-Legged Frog	FT/— G2G3/S2S3 SSC	Found mainly near ponds in humid forests, woodlands, grasslands, coastal scrub, and streambanks with plant cover. Most common in lowlands or foothills. Frequently found in woods adjacent to streams. Breeding habitat is in permanent or ephemeral water sources such as lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps. Ephemeral wetland habitats require animal burrows or other moist refuges for estivation when the wetlands are dry.
<b>Fish (2)</b>		
<i>Oncorhynchus mykiss irideus</i> Steelhead – Central California Coast DPS	FT/— G3/S2S3 —	In streams, deep low-velocity pools are important wintering habitats. Spawning habitat consists of gravel substrates free of excessive silt.
<i>Spirinchus thaleichthys</i> Longfin Smelt	FC/ST G5/S1 SSC	Encounter a wide range of water temperatures (up to 22 degrees C) and salinities (fresh to saltwater) during life cycle. Spend adult life in bays, estuaries, and nearshore coastal areas. Migrate into low salinity or freshwater reaches of coastal rivers and tributary streams to spawn.
<b>Invertebrates (3)</b>		
<i>Bombus crotchii</i> Crotch's Bumble Bee	—/— G3G4/S1S2 —	Found in open grassland and scrub habitats. Nests underground.
<i>Bombus occidentalis</i> Western Bumble Bee	—/— G2G3/S1 —	Open grassy areas, urban parks and gardens, chaparral and shrub areas, and mountain meadows.
<i>Danaus plexippus pop. 1</i> Monarch – California Overwintering Population	—/— G4T2T3/S2S3 —	Open fields and meadows with milkweed.
<b>Arachnids (1)</b>		
<i>Microcina lumi</i> Lum's Micro-Blind Harvestman	—/— G1/S1 —	Serpentine grasslands.
<p><b>Federal:</b> FE = Federally Endangered, FT = Federally Threatened, FS = Federally Sensitive, FC = Federal Candidate Species, DL = Delisted</p> <p><b>State:</b> SE = State Endangered, ST = State Threatened, SR = State Rare, SS = State Sensitive, SC = State Candidate Species, WL = State Watch List</p> <p><b>Global/State Rank:</b> Global rank and state rank as per NatureServe and CDFW's CNDDDB RareFind 5</p> <p><b>CDFW:</b> SSC = CDFW Species of Special Concern, FP = Fully Protected</p> <p>Sources: CNDDDB (CDFW 2017), USFWS (ECOS IPaC 2017)</p>		

**Table 2 Special-Status Plant Species Know to Occur or with Potential to Occur within a Five-Mile Radius of the Plan Area**

<i>Scientific Name</i>	Status Federal/ State Global/State Rank	Habitat Requirements
Common Name	CRPR	
<i>Astragalus tener</i> var. <i>tener</i> Alkali Milk-Vetch	—/— G2T2/S2 1B.2	Bloom period: March-June. Playas, valley and foothill grassland (adobe clay), vernal pools. Alkaline.
<i>Balsamorhiza macrolepis</i> Big-Scale Balsamroot	—/— G2/S2 1B.2	Bloom period: March-June. Chaparral, cismontane woodland, valley and foothill grassland. Sometimes serpentine.
<i>Centromadia parryi</i> ssp. <i>congonii</i> Congdon's Tarplant	—/— G3T2/S2 1B.1	Bloom period: May-November. Valley and foothill grassland. Alkaline.
<i>Eryngium jepsonii</i> Jepson's Coyote-Thistle	—/— G2?/S2? 1B.2	Bloom period: April-August. Valley and foothill grassland, vernal pools. Clay.
<i>Fritillaria liliacea</i> Fragrant Fritillary	—/— G2/S2 1B.2	Bloom period: February-April. Cismontane woodland, coastal prairie, coastal scrub, valley and foothill grassland.
<i>Helianthella castanea</i> Diablo Helianthella	—/— G2/S2 1B.2	Bloom period: March-June. Broadleafed upland forest, chaparral, cismontane woodland, coastal scrub, riparian woodland, valley and foothill grassland.
<i>Holocarpha macradenia</i> Santa Cruz Tarplant	FT/SE G1/S1 1B.1	Bloom period: June-October. Coastal prairie, coastal scrub, valley and foothill grassland. Often clay, sandy.
<i>Hoita strobilina</i> Loma Prieta Hoita	—/— G2/S2 1B.1	Bloom period: May-July. Chaparral, cismontane woodland, and riparian woodland. Usually serpentine, mesic.
<i>Lasthenia conjugens</i> Contra Costa Goldfields	FE/— G1/S1 1B.1	Bloom period: March-June. Cismontane woodland, playas (alkaline), valley and foothill grassland, vernal pools. Mesic.
<i>Monolopia gracilens</i> Woodland Woollythreads	—/— G2G3/S2S3 1B.2	Bloom period: February-July. Broadleafed upland forest (openings), chaparral (openings), cismontane woodland, North Coast coniferous forest (openings), valley and foothill grassland. Serpentine.
<i>Plagiobothrys glaber</i> Hairless Popcornflower	—/— GH/SH 1A	Bloom period: March-May. Meadows and seeps (alkaline), marshes and swamps (coastal salt).
<i>Polemonium carneum</i> Oregon Polemonium	—/— G3G4/S2 2B.2	Bloom period: April-September. Coastal prairie, coastal scrub, and lower montane coniferous forest.
<i>Streptanthus albidus</i> ssp. <i>Permoenus</i> Most Beautiful Jewelflower	—/— G2T2/S2 1B.2	Bloom period: March-October. Chaparral, cismontane woodland, valley and foothill grassland.

<i>Scientific Name</i>	Status Federal/ State Global/State Rank	Habitat Requirements
Common Name	CRPR	
<i>Suaeda californica</i>	FE/—	Bloom period: July-October. Marshes and swamps (coastal salt).
California Seablite	G1/S1 1B.1	

**Federal:** FE = Federally Endangered, FT = Federally Threatened, FS = Federally Sensitive, FC = Federal Candidate Species, DL = Delisted  
**State:** SE = State Endangered, ST = State Threatened, SR = State Rare, SS = State Sensitive, SC = State Candidate Species, WL = State Watch List

**Global/State Rank:** Global rank and state rank as per NatureServe and CDFW's CNDDDB RareFind 5

**CRPR (California Rare Plant Rank):** 1A = Presumed Extinct in California; 1B = Rare, Threatened or Endangered in California and elsewhere; 2 = Rare, Threatened, or Endangered in California, but more common elsewhere; 3 = Need more information (a Review List); 4 = Plants of Limited Distribution (a Watch List)

Sources: CNDDDB (CDFW 2017), CNPS (2017), USFWS (ECOS IPaC 2017)