

Appendix C  
**Supplemental Air Quality  
Documents**



# Appendix C1

## Criteria Pollutant Calculations for Max Daily (Comment A8-2)

Formulas in Columns S through IOF are live and were adjusted to reference each of the three unmitigated and three mitigated pollution daily totals in columns D, E, F and columns M, N, O, respectively.

CNU Construction

Unmitigated Max Daily				Mitigated Max Daily				Plan	Start	Stop	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	
NOX ppd	PM10 ppd	PM2.5 ppd	NOX ppd	PM10 ppd	PM2.5 ppd	2/1/2022	2/2/2022				2/3/2022	2/4/2022	2/5/2022	2/6/2022	2/7/2022	2/8/2022	2/9/2022	2/10/2022			
Demo	3.2	2022	27.803	4.027	1.627	Demo	3.2	2022	4.087	1.492	0.328										
Part 1	3.2	2022	29.408	6.119	1.972	Part 1	3.2	2022	5.691	2.522	0.513	1/3/2022	10/7/2022	0.3282	0.3282	0.3282	0.3282	0.3282	0.3282	0.3282	0.3282
Part 1	3.3	2022	33.124	19.817	11.451	Part 1	3.3	2022	2.058	8.330	4.568	7/1/2022	9/8/2022	0	0	0	0	0	0	0	0
Part 1	3.4	2022	89.554	13.871	6.654	Part 1	3.4	2022	54.010	8.503	3.364	9/9/2022	10/18/2022	0	0	0	0	0	0	0	0
Part 1	3.4	2023	78.402	13.568	6.372	Part 1	3.4	2023	47.186	8.410	3.276	10/19/2022	12/31/2022	0	0	0	0	0	0	0	0
Part 1	3.5	2023	26.588	8.024	2.689	Part 1	3.5	2023	14.438	7.365	2.072	1/1/2023	2/4/2023	0	0	0	0	0	0	0	0
Part 1	3.5	2024	25.268	7.935	2.606	Part 1	3.5	2024	14.059	7.363	2.069	2/5/2023	12/31/2023	0	0	0	0	0	0	0	0
Part 1	3.5	2025	23.943	7.847	2.523	Part 1	3.5	2024	13.708	7.360	2.067	1/1/2024	12/31/2024	0	0	0	0	0	0	0	0
Part 1	3.5	2026	23.621	7.844	2.520	Part 1	3.5	2025	13.386	7.358	2.065	1/1/2025	12/31/2025	0	0	0	0	0	0	0	0
Part 1	3.6	2026	8.603	0.533	0.416	Part 1	3.5	2026	1.237	0.152	0.068	1/1/2026	2/5/2026	0	0	0	0	0	0	0	0
Part 1	3.7	2026	1.370	1.244	0.371	Part 1	3.6	2026	0.353	1.196	0.324	2/6/2026	4/21/2026	0	0	0	0	0	0	0	0
Part 2	3.2	2026	22.138	5.721	1.601	Part 2	3.7	2026	4.944	2.514	0.505	4/22/2026	7/5/2026	0	0	0	0	0	0	0	0
Part 2	3.3	2026	25.260	19.291	10.967	Part 2	3.2	2026	2.043	8.329	4.568	7/1/2026	9/8/2026	0	0	0	0	0	0	0	0
Part 2	3.4	2026	68.447	13.253	6.084	Part 2	3.3	2026	43.804	8.389	3.258	9/9/2026	10/18/2026	0	0	0	0	0	0	0	0
Part 2	3.4	2027	67.404	13.245	6.077	Part 2	3.4	2026	42.761	8.381	3.251	10/19/2026	12/31/2026	0	0	0	0	0	0	0	0
Part 2	3.5	2027	23.336	7.842	2.517	Part 2	3.4	2027	13.101	7.355	2.062	1/1/2027	2/4/2027	0	0	0	0	0	0	0	0
Part 2	3.5	2028	23.099	7.839	2.515	Part 2	3.5	2027	12.864	7.352	2.059	2/5/2027	12/31/2027	0	0	0	0	0	0	0	0
Part 2	3.5	2029	22.886	7.836	2.513	Part 2	3.5	2028	12.651	7.349	2.057	1/1/2028	12/31/2028	0	0	0	0	0	0	0	0
Part 2	3.5	2030	18.160	7.454	2.162	Part 2	3.5	2029	12.460	7.347	2.055	1/1/2029	12/31/2029	0	0	0	0	0	0	0	0
Part 2	3.6	2030	7.136	0.445	0.361	Part 2	3.5	2030	1.231	0.152	0.068	1/1/2030	2/5/2030	0	0	0	0	0	0	0	0
Part 2	3.7	2030	1.020	1.211	0.339	Part 2	3.6	2030	0.293	1.195	0.323	2/6/2030	4/21/2030	0	0	0	0	0	0	0	0
Part 3	3.2	2030	12.459	5.217	1.158	Part 2	3.7	2030	4.685	2.511	0.503	4/22/2030	7/5/2030	0	0	0	0	0	0	0	0
Part 3	3.3	2030	13.687	18.640	10.404	Part 3	3.2	2030	2.036	8.329	4.568	7/1/2030	9/8/2030	0	0	0	0	0	0	0	0
Part 3	3.4	2030	50.831	12.581	5.506	Part 3	3.3	2030	40.285	8.361	3.232	9/9/2030	10/18/2030	0	0	0	0	0	0	0	0
Part 3	3.4	2031	50.171	12.575	5.501	Part 3	3.4	2030	39.625	8.355	3.227	10/19/2030	12/31/2030	0	0	0	0	0	0	0	0
Part 3	3.5	2031	17.996	7.452	2.160	Part 3	3.4	2031	12.296	7.345	2.053	1/1/2031	2/4/2031	0	0	0	0	0	0	0	0
Part 3	3.5	2032	17.858	7.450	2.158	Part 3	3.5	2031	12.158	7.342	2.051	2/5/2031	12/31/2031	0	0	0	0	0	0	0	0
Part 3	3.5	2033	17.743	7.448	2.156	Part 3	3.5	2032	12.043	7.341	2.049	1/1/2032	12/31/2032	0	0	0	0	0	0	0	0
Part 3	3.5	2034	17.637	7.446	2.155	Part 3	3.5	2033	11.937	7.339	2.047	1/1/2033	12/31/2033	0	0	0	0	0	0	0	0
Part 3	3.6	2034	7.133	0.445	0.361	Part 3	3.5	2034	1.228	0.152	0.068	1/1/2034	2/5/2034	0	0	0	0	0	0	0	0
Part 3	3.7	2034	0.991	1.210	0.338	Part 3	3.6	2034	0.263	1.194	0.322	2/6/2034	4/21/2034	0	0	0	0	0	0	0	0
Part 4	3.2	2034	12.298	5.215	1.157	Part 3	3.7	2034	4.524	2.510	0.502	4/22/2034	7/5/2034	0	0	0	0	0	0	0	0
Part 4	3.3	2034	13.684	18.640	10.404	Part 4	3.2	2034	2.033	8.329	4.568	7/1/2034	9/10/2034	0	0	0	0	0	0	0	0
Part 4	3.4	2034	48.635	12.561	5.488	Part 4	3.3	2034	38.089	8.341	3.214	9/11/2034	10/20/2034	0	0	0	0	0	0	0	0
Part 4	3.4	2035	43.978	12.384	5.311	Part 4	3.4	2034	37.683	8.337	3.211	10/21/2034	12/31/2034	0	0	0	0	0	0	0	0
Part 4	3.5	2035	16.772	7.387	2.096	Part 4	3.4	2035	11.845	7.337	2.046	1/1/2035	2/6/2035	0	0	0	0	0	0	0	0
Part 4	3.5	2036	16.772	7.387	2.096	Part 4	3.5	2035	11.845	7.337	2.046	2/7/2035	12/31/2035	0	0	0	0	0	0	0	0
Part 4	3.5	2037	16.772	7.387	2.096	Part 4	3.5	2036	11.845	7.337	2.046	1/1/2036	12/31/2036	0	0	0	0	0	0	0	0
Part 4	3.5	2038	16.772	7.387	2.096	Part 4	3.5	2037	11.845	7.337	2.046	1/1/2037	12/31/2037	0	0	0	0	0	0	0	0
Part 4	3.6	2038	4.889	0.302	0.218	Part 4	3.5	2038	1.1845	7.337	2.046	1/1/2038	2/7/2038	0	0	0	0	0	0	0	0
Part 4	3.7	2038	0.888	1.200	0.328	Part 4	3.6	2038	1.228	0.152	0.068	2/8/2038	4/23/2038	0	0	0	0	0	0	0	0
						Part 4	3.7	2038	0.259	1.194	0.322	4/24/2038	7/7/2038	0	0	0	0	0	0	0	0
														0.3282	0.3282	0.3282	0.3282	0.3282	0.3282	0.3282	0.3282

Below: Hard pasted values from adjusting above "live" formulas

	Unmitigated			Mitigated			
	NOX ppd	PM10 ppd	PM2.5 ppd	NOX ppd	PM10 ppd	PM2.5 ppd	
2022	90	24	13	54	10	5	4.8961
2023	78	14	6	47	8	3	3.2757
2024	25	8	3	14	7	2	2.0694
2025	24	8	3	14	7	2	2.067
2026	68	19	11	44	8	5	4.5678
2027	67	13	6	43	8	3	3.2506
2028	23	8	3	13	7	2	2.0594
2029	23	8	3	13	7	2	2.057
2030	51	19	10	40	8	5	4.5677
2031	50	13	6	40	8	3	3.2266
2032	18	7	2	12	7	2	2.0507
2033	18	7	2	12	7	2	2.049
2034	49	19	10	38	8	5	4.5676
2035	44	12	5	38	8	3	3.2106
2036	17	7	2	12	7	2	2.046
2037	17	7	2	12	7	2	2.046
2038	17	7	2	12	7	2	2.046
	90	24	13	54	10	5	





Formulas in Columns 3 through 10P are live and were adjusted to reference each of the three unmitigated and three mitigated pollution daily totals in columns D, E, F and columns M, N, O, respectively.

Table with columns for Construction Phase (e.g., Phase 1A, 1B, 2A, 2B, 2C, 2D, 2F, 3A, 3B, 3C, 3D, 3E, 3F), Unmitigated Max Daily (NOx, PM10, PM2.5), Mitigated Max Daily (NOx, PM10, PM2.5), and a grid of dates from 2022 to 2032. The table is organized into 10 columns (A-J) and 10 rows (1-10) for each phase.

Below: Next page >

Summary table with columns: Unmitigated (NOx, PM10, PM2.5), Mitigated (NOx, PM10, PM2.5), and a grid of dates from 2022 to 2032. It provides a consolidated view of the pollution data.



InnovationPark\_CAP\_MAXDAILY

*Formulas in Column B through ION are live and were adjusted to reference each of the three unmitigated and three mitigated pollution daily totals.*

	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022
	2/1/2022	2/2/2022	2/3/2022	2/4/2022	2/5/2022	2/6/2022	2/7/2022	2/8/2022	2/9/2022	2/10/2022	2/11/2022	2/12/2022
CNU	65.9345	65.9345	65.9345	65.9345	65.9345	65.9345	65.9345	65.9345	65.9345	65.9345	65.9345	65.9345
IP	4.0867	4.0867	4.0867	4.0867	4.0867	4.0867	4.0867	4.0867	4.0867	4.0867	4.0867	4.0867
Total	70.0212	70.0212	70.0212	70.0212	70.0212	70.0212	70.0212	70.0212	70.0212	70.0212	70.0212	70.0212

*Below: Hard pasted values from adjusting above "live" formulas*

	Unmitigated			Mitigated			
	NOX ppd	PM10 ppd	PM2.5 ppd	NOX ppd	PM10 ppd	PM2.5 ppd	
2022	153	37	17	84	21	8	84.4907
2023	134	41	18	84	27	10	84.4431
2024	99	38	17	40	24	9	40.2529
2025	80	19	7	39	17	5	39.3714
2026	68	19	11	44	8	5	43.8043
2027	70	30	14	43	17	7	42.761
2028	104	33	16	31	20	8	31.1364
2029	114	42	20	33	23	9	33.4265
2030	68	28	15	54	14	7	54.3316
2031	68	38	17	54	22	9	53.6304
2032	36	10	3	19	9	3	19.2496
2033	18	7	2	12	7	2	12.0431
2034	49	19	10	38	8	5	38.0891
2035	44	12	5	38	8	3	37.6834
2036	17	7	2	12	7	2	11.8453
2037	17	7	2	12	7	2	11.8453
2038	17	7	2	12	7	2	11.8453
	153	42	20	84	27	10	

InnovationPark\_CAP\_MAXDAILY

2039	2039	2039	2039	2039	2039	2039	2039
10/4/2039	10/5/2039	10/6/2039	10/7/2039	10/8/2039	10/9/2039	10/10/2039	10/11/2039
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

Appendix C2  
Winter CalEEMod Runs  
(Comment A8-4)

Innovation Park - Demolition - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - Demolition  
Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	183.80	Acre	183.80	8,006,328.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2024
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - Demolition of areana

Land Use - Demo of areana only

Construction Phase - Default demolition schedule for land use type

Demolition -

Construction Off-road Equipment Mitigation - Tier 4 MM + Dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Innovation Park - Demolition - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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**2.0 Emissions Summary**

**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					
2022	2.7313	27.8029	21.3586	0.0469	2.7675	1.2597	4.0272	0.4553	1.1715	1.6269	0.0000	4,617.5124	4,617.5124	1.0871	0.1258	4,682.1879
<b>Maximum</b>	<b>2.7313</b>	<b>27.8029</b>	<b>21.3586</b>	<b>0.0469</b>	<b>2.7675</b>	<b>1.2597</b>	<b>4.0272</b>	<b>0.4553</b>	<b>1.1715</b>	<b>1.6269</b>	<b>0.0000</b>	<b>4,617.5124</b>	<b>4,617.5124</b>	<b>1.0871</b>	<b>0.1258</b>	<b>4,682.1879</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					
2022	0.5544	4.0867	24.0444	0.0469	1.4128	0.0787	1.4915	0.2502	0.0779	0.3281	0.0000	4,617.5124	4,617.5124	1.0871	0.1258	4,682.1879
<b>Maximum</b>	<b>0.5544</b>	<b>4.0867</b>	<b>24.0444</b>	<b>0.0469</b>	<b>1.4128</b>	<b>0.0787</b>	<b>1.4915</b>	<b>0.2502</b>	<b>0.0779</b>	<b>0.3281</b>	<b>0.0000</b>	<b>4,617.5124</b>	<b>4,617.5124</b>	<b>1.0871</b>	<b>0.1258</b>	<b>4,682.1879</b>





Innovation Park - Demolition - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4142	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0402	0.0402	1.1000e-004		0.0429
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9053	1.1704	8.3766	0.0146	1.5660	0.0122	1.5782	0.4175	0.0114	0.4289		1,514.3316	1,514.3316	0.1298	0.0868	1,543.4464
<b>Total</b>	<b>1.3195</b>	<b>1.1706</b>	<b>8.3954</b>	<b>0.0146</b>	<b>1.5660</b>	<b>0.0123</b>	<b>1.5783</b>	<b>0.4175</b>	<b>0.0115</b>	<b>0.4290</b>		<b>1,514.3718</b>	<b>1,514.3718</b>	<b>0.1299</b>	<b>0.0868</b>	<b>1,543.4893</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	0.4142	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0402	0.0402	1.1000e-004		0.0429
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9053	1.1704	8.3766	0.0146	1.5660	0.0122	1.5782	0.4175	0.0114	0.4289		1,514.3316	1,514.3316	0.1298	0.0868	1,543.4464
<b>Total</b>	<b>1.3195</b>	<b>1.1706</b>	<b>8.3954</b>	<b>0.0146</b>	<b>1.5660</b>	<b>0.0123</b>	<b>1.5783</b>	<b>0.4175</b>	<b>0.0115</b>	<b>0.4290</b>		<b>1,514.3718</b>	<b>1,514.3718</b>	<b>0.1299</b>	<b>0.0868</b>	<b>1,543.4893</b>

Innovation Park - Demolition - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	10/7/2022	5	200	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2,183.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Innovation Park - Demolition - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4630	0.0000	2.4630	0.3729	0.0000	0.3729			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>2.4630</b>	<b>1.2427</b>	<b>3.7057</b>	<b>0.3729</b>	<b>1.1553</b>	<b>1.5282</b>		<b>3,746.781 2</b>	<b>3,746.781 2</b>	<b>1.0524</b>		<b>3,773.092 0</b>

Innovation Park - Demolition - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.0441	2.0498	0.3802	7.0900e-003	0.1904	0.0164	0.2068	0.0521	0.0157	0.0678		773.2642	773.2642	0.0310	0.1226	810.5669
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0337	0.3843	9.6000e-004	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		97.4671	97.4671	3.7200e-003	3.2500e-003	98.5290
<b>Total</b>	<b>0.0921</b>	<b>2.0835</b>	<b>0.7645</b>	<b>8.0500e-003</b>	<b>0.3045</b>	<b>0.0170</b>	<b>0.3215</b>	<b>0.0824</b>	<b>0.0163</b>	<b>0.0987</b>		<b>870.7312</b>	<b>870.7312</b>	<b>0.0347</b>	<b>0.1258</b>	<b>909.0958</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					1.1084	0.0000	1.1084	0.1678	0.0000	0.1678			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>	<b>1.1084</b>	<b>0.0616</b>	<b>1.1700</b>	<b>0.1678</b>	<b>0.0616</b>	<b>0.2295</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

Innovation Park - Demolition - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.0441	2.0498	0.3802	7.0900e-003	0.1904	0.0164	0.2068	0.0521	0.0157	0.0678		773.2642	773.2642	0.0310	0.1226	810.5669
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0337	0.3843	9.6000e-004	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		97.4671	97.4671	3.7200e-003	3.2500e-003	98.5290
<b>Total</b>	<b>0.0921</b>	<b>2.0835</b>	<b>0.7645</b>	<b>8.0500e-003</b>	<b>0.3045</b>	<b>0.0170</b>	<b>0.3215</b>	<b>0.0824</b>	<b>0.0163</b>	<b>0.0987</b>		<b>870.7312</b>	<b>870.7312</b>	<b>0.0347</b>	<b>0.1258</b>	<b>909.0958</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park PUD - Part 1**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	91.50	1000sqft	1.83	91,476.00	0
Elementary School	65.30	1000sqft	1.50	65,340.00	0
General Light Industry	9.30	1000sqft	0.43	9,256.50	0
Parking Lot	435.60	1000sqft	10.00	435,600.00	0
City Park	1.80	Acre	1.80	78,408.00	0
Health Club	114.30	1000sqft	2.63	114,345.00	0
Hotel	38.00	Room	0.94	54,450.00	0
Apartments Mid Rise	424.00	Dwelling Unit	5.92	433,759.00	1132
Condo/townhouse	119.00	Dwelling Unit	4.58	118,500.00	318
Single Family Housing	77.00	Dwelling Unit	6.40	138,150.00	206
Strip Mall	49.50	1000sqft	0.96	49,549.50	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2026
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - One quarter build out, construction only

Land Use - 1/4 of land use

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Phase - Adjusted for 4 year schedule

Trips and VMT -

Demolition -

Grading - Acre graded = site acreage

Architectural Coating -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	740.00	784.00
tblConstructionPhase	NumDays	75.00	78.00
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	30.00	28.00
tblGrading	AcresOfGrading	234.00	37.00
tblGrading	AcresOfGrading	42.00	0.00
tblGrading	MaterialExported	0.00	56,930.00
tblGrading	MaterialImported	0.00	111,420.00
tblLandUse	LandUseSquareFeet	91,500.00	91,476.00
tblLandUse	LandUseSquareFeet	65,300.00	65,340.00
tblLandUse	LandUseSquareFeet	9,300.00	9,256.50
tblLandUse	LandUseSquareFeet	114,300.00	114,345.00
tblLandUse	LandUseSquareFeet	55,176.00	54,450.00
tblLandUse	LandUseSquareFeet	424,000.00	433,759.00

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LandUseSquareFeet	119,000.00	118,500.00
tblLandUse	LandUseSquareFeet	138,600.00	138,150.00
tblLandUse	LandUseSquareFeet	49,500.00	49,549.50
tblLandUse	LotAcreage	2.10	1.83
tblLandUse	LotAcreage	0.21	0.43
tblLandUse	LotAcreage	2.62	2.63
tblLandUse	LotAcreage	1.27	0.94
tblLandUse	LotAcreage	11.16	5.92
tblLandUse	LotAcreage	7.44	4.58
tblLandUse	LotAcreage	25.00	6.40
tblLandUse	LotAcreage	1.14	0.96

**2.0 Emissions Summary**

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Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.7793	89.5536	38.9526	0.2387	18.2032	2.0412	19.8165	9.9670	1.8928	11.4513	0.0000	25,254.76 20	25,254.76 20	2.7151	3.0342	26,226.82 44
2023	4.1833	78.4019	38.0305	0.2327	11.8283	1.7392	13.5675	4.7608	1.6116	6.3724	0.0000	24,621.66 20	24,621.66 20	2.6836	2.9348	25,563.30 95
2024	3.9203	25.2684	36.6045	0.1138	7.2378	0.6976	7.9354	1.9490	0.6565	2.6055	0.0000	11,677.26 20	11,677.26 20	0.8687	0.7776	11,930.70 72
2025	3.6752	23.9427	35.3590	0.1114	7.2377	0.6094	7.8471	1.9489	0.5736	2.5225	0.0000	11,474.97 41	11,474.97 41	0.8487	0.7565	11,721.61 07
2026	233.1014	23.6212	34.3723	0.1092	7.2376	0.6068	7.8443	1.9489	0.5711	2.5200	0.0000	11,278.91 62	11,278.91 62	0.8339	0.7373	11,519.46 94
<b>Maximum</b>	<b>233.1014</b>	<b>89.5536</b>	<b>38.9526</b>	<b>0.2387</b>	<b>18.2032</b>	<b>2.0412</b>	<b>19.8165</b>	<b>9.9670</b>	<b>1.8928</b>	<b>11.4513</b>	<b>0.0000</b>	<b>25,254.76 20</b>	<b>25,254.76 20</b>	<b>2.7151</b>	<b>3.0342</b>	<b>26,226.82 44</b>



Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.0781	0.5894	51.1843	2.7100e-003		0.2838	0.2838		0.2838	0.2838	0.0000	92.2787	92.2787	0.0887	0.0000	94.4951
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	25.6275	32.3930	240.5482	0.4286	49.1808	0.3505	49.5313	13.1091	0.3272	13.4363		45,100.3157	45,100.3157	3.7057	2.5043	45,939.2402
<b>Total</b>	<b>54.2073</b>	<b>37.4133</b>	<b>294.6111</b>	<b>0.4587</b>	<b>49.1808</b>	<b>0.9810</b>	<b>50.1618</b>	<b>13.1091</b>	<b>0.9577</b>	<b>14.0668</b>	<b>0.0000</b>	<b>50,665.6105</b>	<b>50,665.6105</b>	<b>3.8992</b>	<b>2.6046</b>	<b>51,539.2749</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	28.0781	0.5894	51.1843	2.7100e-003		0.2838	0.2838		0.2838	0.2838	0.0000	92.2787	92.2787	0.0887	0.0000	94.4951
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	25.6275	32.3930	240.5482	0.4286	49.1808	0.3505	49.5313	13.1091	0.3272	13.4363		45,100.3157	45,100.3157	3.7057	2.5043	45,939.2402
<b>Total</b>	<b>54.2073</b>	<b>37.4133</b>	<b>294.6111</b>	<b>0.4587</b>	<b>49.1808</b>	<b>0.9810</b>	<b>50.1618</b>	<b>13.1091</b>	<b>0.9577</b>	<b>14.0668</b>	<b>0.0000</b>	<b>50,665.6105</b>	<b>50,665.6105</b>	<b>3.8992</b>	<b>2.6046</b>	<b>51,539.2749</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	9/8/2022	5	50	
2	Site Preparation	Site Preparation	9/9/2022	10/18/2022	5	28	
3	Grading	Grading	10/19/2022	2/3/2023	5	78	
4	Building Construction	Building Construction	2/6/2023	2/5/2026	5	784	
5	Paving	Paving	2/6/2026	4/21/2026	5	53	
6	Architectural Coating	Architectural Coating	4/22/2026	7/3/2026	5	53	

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

**Acres of Grading (Grading Phase): 37**

**Acres of Paving: 10**

**Residential Indoor: 1,398,078; Residential Outdoor: 466,026; Non-Residential Indoor: 576,626; Non-Residential Outdoor: 192,209; Striped Parking Area: 26,136 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	973.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	21,044.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	782.00	214.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	156.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.3928	0.0000	4.3928	0.6651	0.0000	0.6651			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>4.3928</b>	<b>1.2427</b>	<b>5.6355</b>	<b>0.6651</b>	<b>1.1553</b>	<b>1.8204</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

**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	0.0787	3.6544	0.6779	0.0127	0.3394	0.0293	0.3687	0.0930	0.0280	0.1209		1,378.6277	1,378.6277	0.0552	0.2185	1,445.1335
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0337	0.3843	9.6000e-004	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		97.4671	97.4671	3.7200e-003	3.2500e-003	98.5290
<b>Total</b>	<b>0.1267</b>	<b>3.6881</b>	<b>1.0622</b>	<b>0.0136</b>	<b>0.4535</b>	<b>0.0299</b>	<b>0.4834</b>	<b>0.1232</b>	<b>0.0286</b>	<b>0.1518</b>		<b>1,476.0947</b>	<b>1,476.0947</b>	<b>0.0590</b>	<b>0.2218</b>	<b>1,543.6624</b>



Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9768	0.0000	1.9768	0.2993	0.0000	0.2993			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>	<b>1.9768</b>	<b>0.0616</b>	<b>2.0384</b>	<b>0.2993</b>	<b>0.0616</b>	<b>0.3610</b>	<b>0.0000</b>	<b>3,746.781 2</b>	<b>3,746.781 2</b>	<b>1.0524</b>		<b>3,773.092 0</b>

**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	0.0787	3.6544	0.6779	0.0127	0.3394	0.0293	0.3687	0.0930	0.0280	0.1209		1,378.627 7	1,378.627 7	0.0552	0.2185	1,445.133 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0337	0.3843	9.6000e-004	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		97.4671	97.4671	3.7200e-003	3.2500e-003	98.5290
<b>Total</b>	<b>0.1267</b>	<b>3.6881</b>	<b>1.0622</b>	<b>0.0136</b>	<b>0.4535</b>	<b>0.0299</b>	<b>0.4834</b>	<b>0.1232</b>	<b>0.0286</b>	<b>0.1518</b>		<b>1,476.094 7</b>	<b>1,476.094 7</b>	<b>0.0590</b>	<b>0.2218</b>	<b>1,543.662 4</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0576	0.0404	0.4612	1.1500e-003	0.1369	7.4000e-004	0.1377	0.0363	6.8000e-004	0.0370		116.9605	116.9605	4.4700e-003	3.9000e-003	118.2347
<b>Total</b>	<b>0.0576</b>	<b>0.0404</b>	<b>0.4612</b>	<b>1.1500e-003</b>	<b>0.1369</b>	<b>7.4000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>6.8000e-004</b>	<b>0.0370</b>		<b>116.9605</b>	<b>116.9605</b>	<b>4.4700e-003</b>	<b>3.9000e-003</b>	<b>118.2347</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0380</b>	<b>8.1298</b>	<b>0.0621</b>	<b>8.1919</b>	<b>4.4688</b>	<b>0.0621</b>	<b>4.5309</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0576	0.0404	0.4612	1.1500e-003	0.1369	7.4000e-004	0.1377	0.0363	6.8000e-004	0.0370		116.9605	116.9605	4.4700e-003	3.9000e-003	118.2347
<b>Total</b>	<b>0.0576</b>	<b>0.0404</b>	<b>0.4612</b>	<b>1.1500e-003</b>	<b>0.1369</b>	<b>7.4000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>6.8000e-004</b>	<b>0.0370</b>		<b>116.9605</b>	<b>116.9605</b>	<b>4.4700e-003</b>	<b>3.9000e-003</b>	<b>118.2347</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9715	0.0000	6.9715	3.4321	0.0000	3.4321			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>6.9715</b>	<b>1.6349</b>	<b>8.6064</b>	<b>3.4321</b>	<b>1.5041</b>	<b>4.9362</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**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	1.0905	50.6652	9.3987	0.1753	4.7059	0.4055	5.1114	1.2887	0.3880	1.6767		19,113.3954	19,113.3954	0.7659	3.0298	20,035.4367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0449	0.5124	1.2800e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		129.9561	129.9561	4.9700e-003	4.3300e-003	131.3719
<b>Total</b>	<b>1.1545</b>	<b>50.7102</b>	<b>9.9111</b>	<b>0.1766</b>	<b>4.8580</b>	<b>0.4063</b>	<b>5.2644</b>	<b>1.3291</b>	<b>0.3887</b>	<b>1.7178</b>		<b>19,243.3515</b>	<b>19,243.3515</b>	<b>0.7709</b>	<b>3.0342</b>	<b>20,166.8086</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1372	0.0000	3.1372	1.5445	0.0000	1.5445			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>3.1372</b>	<b>0.1015</b>	<b>3.2387</b>	<b>1.5445</b>	<b>0.1015</b>	<b>1.6460</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**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	1.0905	50.6652	9.3987	0.1753	4.7059	0.4055	5.1114	1.2887	0.3880	1.6767		19,113.3954	19,113.3954	0.7659	3.0298	20,035.4367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0449	0.5124	1.2800e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		129.9561	129.9561	4.9700e-003	4.3300e-003	131.3719
<b>Total</b>	<b>1.1545</b>	<b>50.7102</b>	<b>9.9111</b>	<b>0.1766</b>	<b>4.8580</b>	<b>0.4063</b>	<b>5.2644</b>	<b>1.3291</b>	<b>0.3887</b>	<b>1.7178</b>		<b>19,243.3515</b>	<b>19,243.3515</b>	<b>0.7709</b>	<b>3.0342</b>	<b>20,166.8086</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9715	0.0000	6.9715	3.4321	0.0000	3.4321			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>6.9715</b>	<b>1.4245</b>	<b>8.3960</b>	<b>3.4321</b>	<b>1.3105</b>	<b>4.7427</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**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	0.6975	43.8466	8.7158	0.1694	4.7047	0.3139	5.0186	1.2883	0.3003	1.5886		18,483.5686	18,483.5686	0.7349	2.9308	19,375.3031
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
<b>Total</b>	<b>0.7572</b>	<b>43.8863</b>	<b>9.1905</b>	<b>0.1706</b>	<b>4.8568</b>	<b>0.3147</b>	<b>5.1715</b>	<b>1.3287</b>	<b>0.3010</b>	<b>1.6297</b>		<b>18,610.1843</b>	<b>18,610.1843</b>	<b>0.7394</b>	<b>2.9348</b>	<b>19,503.2260</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1372	0.0000	3.1372	1.5445	0.0000	1.5445			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>3.1372</b>	<b>0.1015</b>	<b>3.2387</b>	<b>1.5445</b>	<b>0.1015</b>	<b>1.6460</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**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	0.6975	43.8466	8.7158	0.1694	4.7047	0.3139	5.0186	1.2883	0.3003	1.5886		18,483.5686	18,483.5686	0.7349	2.9308	19,375.3031
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
<b>Total</b>	<b>0.7572</b>	<b>43.8863</b>	<b>9.1905</b>	<b>0.1706</b>	<b>4.8568</b>	<b>0.3147</b>	<b>5.1715</b>	<b>1.3287</b>	<b>0.3010</b>	<b>1.6297</b>		<b>18,610.1843</b>	<b>18,610.1843</b>	<b>0.7394</b>	<b>2.9348</b>	<b>19,503.2260</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2768	10.6500	3.2253	0.0408	1.2893	0.0560	1.3453	0.3711	0.0535	0.4246		4,376.9569	4,376.9569	0.1076	0.6427	4,571.1647
Worker	2.3337	1.5534	18.5613	0.0484	5.9487	0.0307	5.9793	1.5779	0.0282	1.6062		4,950.6711	4,950.6711	0.1759	0.1568	5,001.7821
<b>Total</b>	<b>2.6106</b>	<b>12.2034</b>	<b>21.7865</b>	<b>0.0892</b>	<b>7.2380</b>	<b>0.0866</b>	<b>7.3246</b>	<b>1.9490</b>	<b>0.0818</b>	<b>2.0308</b>		<b>9,327.6280</b>	<b>9,327.6280</b>	<b>0.2835</b>	<b>0.7994</b>	<b>9,572.9468</b>



Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0269</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2768	10.6500	3.2253	0.0408	1.2893	0.0560	1.3453	0.3711	0.0535	0.4246		4,376.9569	4,376.9569	0.1076	0.6427	4,571.1647
Worker	2.3337	1.5534	18.5613	0.0484	5.9487	0.0307	5.9793	1.5779	0.0282	1.6062		4,950.6711	4,950.6711	0.1759	0.1568	5,001.7821
<b>Total</b>	<b>2.6106</b>	<b>12.2034</b>	<b>21.7865</b>	<b>0.0892</b>	<b>7.2380</b>	<b>0.0866</b>	<b>7.3246</b>	<b>1.9490</b>	<b>0.0818</b>	<b>2.0308</b>		<b>9,327.6280</b>	<b>9,327.6280</b>	<b>0.2835</b>	<b>0.7994</b>	<b>9,572.9468</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2644	10.4416	3.1257	0.0400	1.2892	0.0551	1.3442	0.3710	0.0527	0.4237		4,294.1430	4,294.1430	0.1046	0.6319	4,485.0562
Worker	2.1843	1.3830	17.3120	0.0468	5.9487	0.0292	5.9779	1.5779	0.0269	1.6048		4,827.4201	4,827.4201	0.1598	0.1457	4,874.8433
<b>Total</b>	<b>2.4487</b>	<b>11.8246</b>	<b>20.4377</b>	<b>0.0868</b>	<b>7.2378</b>	<b>0.0843</b>	<b>7.3221</b>	<b>1.9490</b>	<b>0.0796</b>	<b>2.0286</b>		<b>9,121.5631</b>	<b>9,121.5631</b>	<b>0.2643</b>	<b>0.7776</b>	<b>9,359.8996</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2644	10.4416	3.1257	0.0400	1.2892	0.0551	1.3442	0.3710	0.0527	0.4237		4,294.1430	4,294.1430	0.1046	0.6319	4,485.0562
Worker	2.1843	1.3830	17.3120	0.0468	5.9487	0.0292	5.9779	1.5779	0.0269	1.6048		4,827.4201	4,827.4201	0.1598	0.1457	4,874.8433
<b>Total</b>	<b>2.4487</b>	<b>11.8246</b>	<b>20.4377</b>	<b>0.0868</b>	<b>7.2378</b>	<b>0.0843</b>	<b>7.3221</b>	<b>1.9490</b>	<b>0.0796</b>	<b>2.0286</b>		<b>9,121.5631</b>	<b>9,121.5631</b>	<b>0.2643</b>	<b>0.7776</b>	<b>9,359.8996</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2544	10.2321	3.0521	0.0392	1.2890	0.0540	1.3430	0.3710	0.0516	0.4226		4,207.542 8	4,207.542 8	0.1024	0.6202	4,394.929 9
Worker	2.0533	1.2410	16.2223	0.0452	5.9487	0.0279	5.9766	1.5779	0.0257	1.6036		4,710.957 0	4,710.957 0	0.1453	0.1362	4,755.182 8
<b>Total</b>	<b>2.3078</b>	<b>11.4731</b>	<b>19.2744</b>	<b>0.0844</b>	<b>7.2377</b>	<b>0.0819</b>	<b>7.3195</b>	<b>1.9489</b>	<b>0.0773</b>	<b>2.0262</b>		<b>8,918.499 8</b>	<b>8,918.499 8</b>	<b>0.2477</b>	<b>0.7565</b>	<b>9,150.112 7</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2544	10.2321	3.0521	0.0392	1.2890	0.0540	1.3430	0.3710	0.0516	0.4226		4,207.542 8	4,207.542 8	0.1024	0.6202	4,394.929 9
Worker	2.0533	1.2410	16.2223	0.0452	5.9487	0.0279	5.9766	1.5779	0.0257	1.6036		4,710.957 0	4,710.957 0	0.1453	0.1362	4,755.182 8
<b>Total</b>	<b>2.3078</b>	<b>11.4731</b>	<b>19.2744</b>	<b>0.0844</b>	<b>7.2377</b>	<b>0.0819</b>	<b>7.3195</b>	<b>1.9489</b>	<b>0.0773</b>	<b>2.0262</b>		<b>8,918.499 8</b>	<b>8,918.499 8</b>	<b>0.2477</b>	<b>0.7565</b>	<b>9,150.112 7</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2450	10.0268	2.9906	0.0384	1.2889	0.0526	1.3415	0.3709	0.0503	0.4213		4,123.136 0	4,123.136 0	0.1001	0.6090	4,307.106 5
Worker	1.9395	1.1247	15.2970	0.0438	5.9487	0.0266	5.9753	1.5779	0.0245	1.6024		4,599.305 9	4,599.305 9	0.1328	0.1283	4,640.864 8
<b>Total</b>	<b>2.1845</b>	<b>11.1515</b>	<b>18.2876</b>	<b>0.0822</b>	<b>7.2376</b>	<b>0.0792</b>	<b>7.3167</b>	<b>1.9489</b>	<b>0.0748</b>	<b>2.0237</b>		<b>8,722.441 9</b>	<b>8,722.441 9</b>	<b>0.2329</b>	<b>0.7373</b>	<b>8,947.971 3</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2450	10.0268	2.9906	0.0384	1.2889	0.0526	1.3415	0.3709	0.0503	0.4213		4,123.136 0	4,123.136 0	0.1001	0.6090	4,307.106 5
Worker	1.9395	1.1247	15.2970	0.0438	5.9487	0.0266	5.9753	1.5779	0.0245	1.6024		4,599.305 9	4,599.305 9	0.1328	0.1283	4,640.864 8
<b>Total</b>	<b>2.1845</b>	<b>11.1515</b>	<b>18.2876</b>	<b>0.0822</b>	<b>7.2376</b>	<b>0.0792</b>	<b>7.3167</b>	<b>1.9489</b>	<b>0.0748</b>	<b>2.0237</b>		<b>8,722.441 9</b>	<b>8,722.441 9</b>	<b>0.2329</b>	<b>0.7373</b>	<b>8,947.971 3</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4095</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192
<b>Total</b>	<b>0.0372</b>	<b>0.0216</b>	<b>0.2934</b>	<b>8.4000e-004</b>	<b>0.1141</b>	<b>5.1000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.7000e-004</b>	<b>0.0307</b>		<b>88.2220</b>	<b>88.2220</b>	<b>2.5500e-003</b>	<b>2.4600e-003</b>	<b>89.0192</b>



Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7748</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192
<b>Total</b>	<b>0.0372</b>	<b>0.0216</b>	<b>0.2934</b>	<b>8.4000e-004</b>	<b>0.1141</b>	<b>5.1000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.7000e-004</b>	<b>0.0307</b>		<b>88.2220</b>	<b>88.2220</b>	<b>2.5500e-003</b>	<b>2.4600e-003</b>	<b>89.0192</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	232.5436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>232.7145</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3869	0.2244	3.0516	8.7300e-003	1.1867	5.3100e-003	1.1920	0.3148	4.8900e-003	0.3197		917.5086	917.5086	0.0265	0.0256	925.7991
<b>Total</b>	<b>0.3869</b>	<b>0.2244</b>	<b>3.0516</b>	<b>8.7300e-003</b>	<b>1.1867</b>	<b>5.3100e-003</b>	<b>1.1920</b>	<b>0.3148</b>	<b>4.8900e-003</b>	<b>0.3197</b>		<b>917.5086</b>	<b>917.5086</b>	<b>0.0265</b>	<b>0.0256</b>	<b>925.7991</b>

Innovation Park PUD - Part 1 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2026**

**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	232.5436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>232.5733</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3869	0.2244	3.0516	8.7300e-003	1.1867	5.3100e-003	1.1920	0.3148	4.8900e-003	0.3197		917.5086	917.5086	0.0265	0.0256	925.7991
<b>Total</b>	<b>0.3869</b>	<b>0.2244</b>	<b>3.0516</b>	<b>8.7300e-003</b>	<b>1.1867</b>	<b>5.3100e-003</b>	<b>1.1920</b>	<b>0.3148</b>	<b>4.8900e-003</b>	<b>0.3197</b>		<b>917.5086</b>	<b>917.5086</b>	<b>0.0265</b>	<b>0.0256</b>	<b>925.7991</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park PUD - Part 2**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	91.50	1000sqft	1.83	91,476.00	0
Elementary School	65.30	1000sqft	1.50	65,340.00	0
General Light Industry	9.30	1000sqft	0.43	9,256.50	0
Parking Lot	435.60	1000sqft	10.00	435,600.00	0
City Park	1.80	Acre	1.80	78,408.00	0
Health Club	114.30	1000sqft	2.63	114,345.00	0
Hotel	38.00	Room	0.94	54,450.00	0
Apartments Mid Rise	424.00	Dwelling Unit	5.92	433,759.00	1132
Condo/townhouse	119.00	Dwelling Unit	4.58	118,500.00	318
Single Family Housing	77.00	Dwelling Unit	6.40	138,150.00	206
Strip Mall	49.50	1000sqft	0.96	49,549.50	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2030
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - One quarter build out, construction only

Land Use - 1/4 of land use

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Phase - Adjusted for 4 year schedule

Trips and VMT -

Demolition -

Grading - Acre graded = site acreage

Architectural Coating -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblGrading	AcresOfGrading	234.00	37.00
tblGrading	AcresOfGrading	42.00	0.00
tblGrading	MaterialExported	0.00	56,930.00
tblGrading	MaterialImported	0.00	111,420.00
tblLandUse	LandUseSquareFeet	91,500.00	91,476.00
tblLandUse	LandUseSquareFeet	65,300.00	65,340.00
tblLandUse	LandUseSquareFeet	9,300.00	9,256.50

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LandUseSquareFeet	114,300.00	114,345.00
tblLandUse	LandUseSquareFeet	55,176.00	54,450.00
tblLandUse	LandUseSquareFeet	424,000.00	433,759.00
tblLandUse	LandUseSquareFeet	119,000.00	118,500.00
tblLandUse	LandUseSquareFeet	138,600.00	138,150.00
tblLandUse	LandUseSquareFeet	49,500.00	49,549.50
tblLandUse	LotAcreage	2.10	1.83
tblLandUse	LotAcreage	0.21	0.43
tblLandUse	LotAcreage	2.62	2.63
tblLandUse	LotAcreage	1.27	0.94
tblLandUse	LotAcreage	11.16	5.92
tblLandUse	LotAcreage	7.44	4.58
tblLandUse	LotAcreage	25.00	6.40
tblLandUse	LotAcreage	1.14	0.96

**2.0 Emissions Summary**

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Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	3.6239	70.0662	35.8544	0.2286	16.9988	1.4398	18.0862	9.3050	1.3359	10.3054	0.0000	24,197.12 56	24,197.12 56	2.6684	2.8694	25,118.93 05
2027	3.6047	68.9812	35.8354	0.2248	12.2911	1.4325	13.7236	4.9481	1.3290	6.2770	0.0000	23,785.70 48	23,785.70 48	2.6514	2.8046	24,687.74 48
2028	3.3324	23.0992	32.8188	0.1050	7.2373	0.6014	7.8388	1.9488	0.5661	2.5149	0.0000	10,912.65 26	10,912.65 26	0.8091	0.7019	11,142.04 56
2029	3.2304	22.8857	32.2034	0.1033	7.2372	0.5989	7.8361	1.9488	0.5637	2.5125	0.0000	10,752.21 11	10,752.21 11	0.7990	0.6866	10,976.79 54
2030	224.5275	7.1360	16.0946	0.0288	1.1867	0.3310	1.2111	0.3148	0.3310	0.3613	0.0000	2,737.992 9	2,737.992 9	0.1264	0.0215	2,741.768 4
<b>Maximum</b>	<b>224.5275</b>	<b>70.0662</b>	<b>35.8544</b>	<b>0.2286</b>	<b>16.9988</b>	<b>1.4398</b>	<b>18.0862</b>	<b>9.3050</b>	<b>1.3359</b>	<b>10.3054</b>	<b>0.0000</b>	<b>24,197.12 56</b>	<b>24,197.12 56</b>	<b>2.6684</b>	<b>2.8694</b>	<b>25,118.93 05</b>





Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.0697	0.5889	51.0974	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0882	0.0000	94.4838
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	21.7288	26.7479	211.7565	0.3826	49.1514	0.2818	49.4332	13.0965	0.2631	13.3596		41,234.8976	41,234.8976	3.2169	2.2159	41,975.6667
<b>Total</b>	<b>50.3001</b>	<b>31.7677</b>	<b>265.7324</b>	<b>0.4127</b>	<b>49.1514</b>	<b>0.9124</b>	<b>50.0638</b>	<b>13.0965</b>	<b>0.8936</b>	<b>13.9902</b>	<b>0.0000</b>	<b>46,800.1924</b>	<b>46,800.1924</b>	<b>3.4100</b>	<b>2.3163</b>	<b>47,575.6900</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	28.0697	0.5889	51.0974	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0882	0.0000	94.4838
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	21.7288	26.7479	211.7565	0.3826	49.1514	0.2818	49.4332	13.0965	0.2631	13.3596		41,234.8976	41,234.8976	3.2169	2.2159	41,975.6667
<b>Total</b>	<b>50.3001</b>	<b>31.7677</b>	<b>265.7324</b>	<b>0.4127</b>	<b>49.1514</b>	<b>0.9124</b>	<b>50.0638</b>	<b>13.0965</b>	<b>0.8936</b>	<b>13.9902</b>	<b>0.0000</b>	<b>46,800.1924</b>	<b>46,800.1924</b>	<b>3.4100</b>	<b>2.3163</b>	<b>47,575.6900</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2026	9/8/2026	5	50	
2	Site Preparation	Site Preparation	9/9/2026	10/20/2026	5	30	
3	Grading	Grading	10/21/2026	2/2/2027	5	75	
4	Building Construction	Building Construction	2/3/2027	12/4/2029	5	740	
5	Paving	Paving	12/5/2029	2/19/2030	5	55	
6	Architectural Coating	Architectural Coating	2/20/2030	5/7/2030	5	55	

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

**Acres of Grading (Grading Phase): 37**

**Acres of Paving: 10**

**Residential Indoor: 1,398,078; Residential Outdoor: 466,026; Non-Residential Indoor: 576,626; Non-Residential Outdoor: 192,209; Striped Parking Area: 26,136 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	973.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	21,044.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	782.00	214.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	156.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Fugitive Dust					4.3928	0.0000	4.3928	0.6651	0.0000	0.6651			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>	<b>4.3928</b>	<b>0.8528</b>	<b>5.2456</b>	<b>0.6651</b>	<b>0.7920</b>	<b>1.4571</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0467	2.9195	0.6334	0.0115	0.3391	0.0214	0.3605	0.0928	0.0205	0.1133		1,253.3234	1,253.3234	0.0501	0.1988	1,313.8119
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192
<b>Total</b>	<b>0.0839</b>	<b>2.9410</b>	<b>0.9268</b>	<b>0.0123</b>	<b>0.4532</b>	<b>0.0219</b>	<b>0.4751</b>	<b>0.1231</b>	<b>0.0209</b>	<b>0.1440</b>		<b>1,341.5454</b>	<b>1,341.5454</b>	<b>0.0526</b>	<b>0.2012</b>	<b>1,402.8311</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2026**

**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					1.9768	0.0000	1.9768	0.2993	0.0000	0.2993			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>	<b>1.9768</b>	<b>0.0616</b>	<b>2.0384</b>	<b>0.2993</b>	<b>0.0616</b>	<b>0.3610</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0467	2.9195	0.6334	0.0115	0.3391	0.0214	0.3605	0.0928	0.0205	0.1133			1,253.3234	1,253.3234	0.0501	0.1988	1,313.8119
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307			88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192
<b>Total</b>	<b>0.0839</b>	<b>2.9410</b>	<b>0.9268</b>	<b>0.0123</b>	<b>0.4532</b>	<b>0.0219</b>	<b>0.4751</b>	<b>0.1231</b>	<b>0.0209</b>	<b>0.1440</b>			<b>1,341.5454</b>	<b>1,341.5454</b>	<b>0.0526</b>	<b>0.2012</b>	<b>1,402.8311</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					16.8618	0.0000	16.8618	9.2686	0.0000	9.2686			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>16.8618</b>	<b>1.0868</b>	<b>17.9486</b>	<b>9.2686</b>	<b>0.9999</b>	<b>10.2685</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0259	0.3521	1.0100e-003	0.1369	6.1000e-004	0.1375	0.0363	5.6000e-004	0.0369		105.8664	105.8664	3.0600e-003	2.9500e-003	106.8230
<b>Total</b>	<b>0.0446</b>	<b>0.0259</b>	<b>0.3521</b>	<b>1.0100e-003</b>	<b>0.1369</b>	<b>6.1000e-004</b>	<b>0.1375</b>	<b>0.0363</b>	<b>5.6000e-004</b>	<b>0.0369</b>		<b>105.8664</b>	<b>105.8664</b>	<b>3.0600e-003</b>	<b>2.9500e-003</b>	<b>106.8230</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2026**

**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					7.5878	0.0000	7.5878	4.1709	0.0000	4.1709			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>7.5878</b>	<b>0.0621</b>	<b>7.6499</b>	<b>4.1709</b>	<b>0.0621</b>	<b>4.2330</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0259	0.3521	1.0100e-003	0.1369	6.1000e-004	0.1375	0.0363	5.6000e-004	0.0369		105.8664	105.8664	3.0600e-003	2.9500e-003	106.8230
<b>Total</b>	<b>0.0446</b>	<b>0.0259</b>	<b>0.3521</b>	<b>1.0100e-003</b>	<b>0.1369</b>	<b>6.1000e-004</b>	<b>0.1375</b>	<b>0.0363</b>	<b>5.6000e-004</b>	<b>0.0369</b>		<b>105.8664</b>	<b>105.8664</b>	<b>3.0600e-003</b>	<b>2.9500e-003</b>	<b>106.8230</b>



Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					7.2504	0.0000	7.2504	3.5694	0.0000	3.5694			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>7.2504</b>	<b>1.1309</b>	<b>8.3813</b>	<b>3.5694</b>	<b>1.0404</b>	<b>4.6098</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**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	0.6731	42.0946	9.1321	0.1654	4.8895	0.3082	5.1978	1.3386	0.2949	1.6335		18,071.2149	18,071.2149	0.7218	2.8662	18,943.3768
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0496	0.0288	0.3912	1.1200e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		117.6293	117.6293	3.4000e-003	3.2800e-003	118.6922
<b>Total</b>	<b>0.7227</b>	<b>42.1233</b>	<b>9.5233</b>	<b>0.1665</b>	<b>5.0417</b>	<b>0.3089</b>	<b>5.3506</b>	<b>1.3790</b>	<b>0.2955</b>	<b>1.6745</b>		<b>18,188.8442</b>	<b>18,188.8442</b>	<b>0.7252</b>	<b>2.8694</b>	<b>19,062.0690</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2026**

**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					3.2627	0.0000	3.2627	1.6062	0.0000	1.6062			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>3.2627</b>	<b>0.1015</b>	<b>3.3642</b>	<b>1.6062</b>	<b>0.1015</b>	<b>1.7078</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**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	0.6731	42.0946	9.1321	0.1654	4.8895	0.3082	5.1978	1.3386	0.2949	1.6335		18,071.21 49	18,071.21 49	0.7218	2.8662	18,943.37 68
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0496	0.0288	0.3912	1.1200e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		117.6293	117.6293	3.4000e-003	3.2800e-003	118.6922
<b>Total</b>	<b>0.7227</b>	<b>42.1233</b>	<b>9.5233</b>	<b>0.1665</b>	<b>5.0417</b>	<b>0.3089</b>	<b>5.3506</b>	<b>1.3790</b>	<b>0.2955</b>	<b>1.6745</b>		<b>18,188.84 42</b>	<b>18,188.84 42</b>	<b>0.7252</b>	<b>2.8694</b>	<b>19,062.06 90</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					7.2504	0.0000	7.2504	3.5694	0.0000	3.5694			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>7.2504</b>	<b>1.1309</b>	<b>8.3813</b>	<b>3.5694</b>	<b>1.0404</b>	<b>4.6098</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**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	0.6566	41.0121	9.1334	0.1616	4.8886	0.3010	5.1895	1.3383	0.2880	1.6262		17,662.4300	17,662.4300	0.7051	2.8014	18,514.8845
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0469	0.0263	0.3709	1.0900e-003	0.1521	6.4000e-004	0.1528	0.0404	5.9000e-004	0.0410		114.9934	114.9934	3.1200e-003	3.1100e-003	115.9989
<b>Total</b>	<b>0.7034</b>	<b>41.0383</b>	<b>9.5043</b>	<b>0.1627</b>	<b>5.0407</b>	<b>0.3016</b>	<b>5.3423</b>	<b>1.3786</b>	<b>0.2885</b>	<b>1.6672</b>		<b>17,777.4234</b>	<b>17,777.4234</b>	<b>0.7082</b>	<b>2.8046</b>	<b>18,630.8834</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2027**

**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					3.2627	0.0000	3.2627	1.6062	0.0000	1.6062			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>3.2627</b>	<b>0.1015</b>	<b>3.3642</b>	<b>1.6062</b>	<b>0.1015</b>	<b>1.7078</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**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	0.6566	41.0121	9.1334	0.1616	4.8886	0.3010	5.1895	1.3383	0.2880	1.6262		17,662.4300	17,662.4300	0.7051	2.8014	18,514.8845
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0469	0.0263	0.3709	1.0900e-003	0.1521	6.4000e-004	0.1528	0.0404	5.9000e-004	0.0410		114.9934	114.9934	3.1200e-003	3.1100e-003	115.9989
<b>Total</b>	<b>0.7034</b>	<b>41.0383</b>	<b>9.5043</b>	<b>0.1627</b>	<b>5.0407</b>	<b>0.3016</b>	<b>5.3423</b>	<b>1.3786</b>	<b>0.2885</b>	<b>1.6672</b>		<b>17,777.4234</b>	<b>17,777.4234</b>	<b>0.7082</b>	<b>2.8046</b>	<b>18,630.8834</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2366	9.8386	2.9378	0.0376	1.2888	0.0513	1.3401	0.3709	0.0491	0.4200		4,034.969 3	4,034.969 3	0.0975	0.5970	4,215.320 9
Worker	1.8334	1.0275	14.5033	0.0425	5.9487	0.0252	5.9738	1.5779	0.0232	1.6011		4,496.241 7	4,496.241 7	0.1219	0.1217	4,535.554 9
<b>Total</b>	<b>2.0701</b>	<b>10.8661</b>	<b>17.4411</b>	<b>0.0801</b>	<b>7.2374</b>	<b>0.0765</b>	<b>7.3139</b>	<b>1.9488</b>	<b>0.0723</b>	<b>2.0211</b>		<b>8,531.211 0</b>	<b>8,531.211 0</b>	<b>0.2195</b>	<b>0.7187</b>	<b>8,750.875 8</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2366	9.8386	2.9378	0.0376	1.2888	0.0513	1.3401	0.3709	0.0491	0.4200		4,034.969 3	4,034.969 3	0.0975	0.5970	4,215.320 9
Worker	1.8334	1.0275	14.5033	0.0425	5.9487	0.0252	5.9738	1.5779	0.0232	1.6011		4,496.241 7	4,496.241 7	0.1219	0.1217	4,535.554 9
<b>Total</b>	<b>2.0701</b>	<b>10.8661</b>	<b>17.4411</b>	<b>0.0801</b>	<b>7.2374</b>	<b>0.0765</b>	<b>7.3139</b>	<b>1.9488</b>	<b>0.0723</b>	<b>2.0211</b>		<b>8,531.211 0</b>	<b>8,531.211 0</b>	<b>0.2195</b>	<b>0.7187</b>	<b>8,750.875 8</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2292	9.6821	2.8950	0.0368	1.2887	0.0502	1.3389	0.3709	0.0481	0.4189		3,952.313 9	3,952.313 9	0.0956	0.5857	4,129.243 2
Worker	1.7358	0.9474	13.8391	0.0413	5.9487	0.0236	5.9723	1.5779	0.0218	1.5997		4,403.864 3	4,403.864 3	0.1125	0.1162	4,441.304 3
<b>Total</b>	<b>1.9650</b>	<b>10.6295</b>	<b>16.7342</b>	<b>0.0781</b>	<b>7.2373</b>	<b>0.0739</b>	<b>7.3112</b>	<b>1.9488</b>	<b>0.0698</b>	<b>2.0186</b>		<b>8,356.178 2</b>	<b>8,356.178 2</b>	<b>0.2081</b>	<b>0.7019</b>	<b>8,570.547 5</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2292	9.6821	2.8950	0.0368	1.2887	0.0502	1.3389	0.3709	0.0481	0.4189		3,952.313 9	3,952.313 9	0.0956	0.5857	4,129.243 2
Worker	1.7358	0.9474	13.8391	0.0413	5.9487	0.0236	5.9723	1.5779	0.0218	1.5997		4,403.864 3	4,403.864 3	0.1125	0.1162	4,441.304 3
<b>Total</b>	<b>1.9650</b>	<b>10.6295</b>	<b>16.7342</b>	<b>0.0781</b>	<b>7.2373</b>	<b>0.0739</b>	<b>7.3112</b>	<b>1.9488</b>	<b>0.0698</b>	<b>2.0186</b>		<b>8,356.178 2</b>	<b>8,356.178 2</b>	<b>0.2081</b>	<b>0.7019</b>	<b>8,570.547 5</b>



Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2223	9.5366	2.8577	0.0361	1.2886	0.0492	1.3377	0.3708	0.0471	0.4179		3,874.953 2	3,874.953 2	0.0938	0.5750	4,048.659 5
Worker	1.6407	0.8795	13.2611	0.0402	5.9487	0.0221	5.9708	1.5779	0.0204	1.5983		4,320.783 5	4,320.783 5	0.1042	0.1116	4,356.637 8
<b>Total</b>	<b>1.8630</b>	<b>10.4160</b>	<b>16.1187</b>	<b>0.0763</b>	<b>7.2372</b>	<b>0.0713</b>	<b>7.3086</b>	<b>1.9488</b>	<b>0.0674</b>	<b>2.0162</b>		<b>8,195.736 7</b>	<b>8,195.736 7</b>	<b>0.1980</b>	<b>0.6866</b>	<b>8,405.297 3</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2223	9.5366	2.8577	0.0361	1.2886	0.0492	1.3377	0.3708	0.0471	0.4179		3,874.953 2	3,874.953 2	0.0938	0.5750	4,048.659 5
Worker	1.6407	0.8795	13.2611	0.0402	5.9487	0.0221	5.9708	1.5779	0.0204	1.5983		4,320.783 5	4,320.783 5	0.1042	0.1116	4,356.637 8
<b>Total</b>	<b>1.8630</b>	<b>10.4160</b>	<b>16.1187</b>	<b>0.0763</b>	<b>7.2372</b>	<b>0.0713</b>	<b>7.3086</b>	<b>1.9488</b>	<b>0.0674</b>	<b>2.0162</b>		<b>8,195.736 7</b>	<b>8,195.736 7</b>	<b>0.1980</b>	<b>0.6866</b>	<b>8,405.297 3</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3915</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0315</b>	<b>0.0169</b>	<b>0.2544</b>	<b>7.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>82.8795</b>	<b>82.8795</b>	<b>2.0000e-003</b>	<b>2.1400e-003</b>	<b>83.5672</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7568</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0315</b>	<b>0.0169</b>	<b>0.2544</b>	<b>7.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>82.8795</b>	<b>82.8795</b>	<b>2.0000e-003</b>	<b>2.1400e-003</b>	<b>83.5672</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8609</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0297</b>	<b>0.0158</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>81.4761</b>	<b>81.4761</b>	<b>1.8600e-003</b>	<b>2.0700e-003</b>	<b>82.1383</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7568</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0297</b>	<b>0.0158</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>81.4761</b>	<b>81.4761</b>	<b>1.8600e-003</b>	<b>2.0700e-003</b>	<b>82.1383</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	224.0875					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>224.2183</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3092	0.1641	2.5484	7.8400e-003	1.1867	4.1400e-003	1.1908	0.3148	3.8100e-003	0.3186		847.3514	847.3514	0.0193	0.0215	854.2379
<b>Total</b>	<b>0.3092</b>	<b>0.1641</b>	<b>2.5484</b>	<b>7.8400e-003</b>	<b>1.1867</b>	<b>4.1400e-003</b>	<b>1.1908</b>	<b>0.3148</b>	<b>3.8100e-003</b>	<b>0.3186</b>		<b>847.3514</b>	<b>847.3514</b>	<b>0.0193</b>	<b>0.0215</b>	<b>854.2379</b>

Innovation Park PUD - Part 2 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	224.0875					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>224.1172</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3092	0.1641	2.5484	7.8400e-003	1.1867	4.1400e-003	1.1908	0.3148	3.8100e-003	0.3186		847.3514	847.3514	0.0193	0.0215	854.2379
<b>Total</b>	<b>0.3092</b>	<b>0.1641</b>	<b>2.5484</b>	<b>7.8400e-003</b>	<b>1.1867</b>	<b>4.1400e-003</b>	<b>1.1908</b>	<b>0.3148</b>	<b>3.8100e-003</b>	<b>0.3186</b>		<b>847.3514</b>	<b>847.3514</b>	<b>0.0193</b>	<b>0.0215</b>	<b>854.2379</b>



Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park PUD - Part 3**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	91.50	1000sqft	1.83	91,476.00	0
Elementary School	65.30	1000sqft	1.50	65,340.00	0
General Light Industry	9.30	1000sqft	0.43	9,256.50	0
Parking Lot	435.60	1000sqft	10.00	435,600.00	0
City Park	1.80	Acre	1.80	78,408.00	0
Health Club	114.30	1000sqft	2.63	114,345.00	0
Hotel	38.00	Room	0.94	54,450.00	0
Apartments Mid Rise	424.00	Dwelling Unit	5.92	433,759.00	1132
Condo/townhouse	119.00	Dwelling Unit	4.58	118,500.00	318
Single Family Housing	77.00	Dwelling Unit	6.40	138,150.00	206
Strip Mall	49.50	1000sqft	0.96	49,549.50	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2034
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - One quarter build out, construction only

Land Use - 1/4 of land use

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Phase - Adjusted for 4 year schedule

Trips and VMT -

Demolition -

Grading - Acre graded = site acreage

Architectural Coating -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	740.00	784.00
tblConstructionPhase	NumDays	75.00	78.00
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	30.00	28.00
tblGrading	AcresOfGrading	234.00	37.00
tblGrading	AcresOfGrading	42.00	0.00
tblGrading	MaterialExported	0.00	56,930.00
tblGrading	MaterialImported	0.00	111,420.00
tblLandUse	LandUseSquareFeet	91,500.00	91,476.00
tblLandUse	LandUseSquareFeet	65,300.00	65,340.00
tblLandUse	LandUseSquareFeet	9,300.00	9,256.50
tblLandUse	LandUseSquareFeet	114,300.00	114,345.00
tblLandUse	LandUseSquareFeet	55,176.00	54,450.00
tblLandUse	LandUseSquareFeet	424,000.00	433,759.00
tblLandUse	LandUseSquareFeet	119,000.00	118,500.00
tblLandUse	LandUseSquareFeet	138,600.00	138,150.00
tblLandUse	LandUseSquareFeet	49,500.00	49,549.50

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LotAcreage	2.10	1.83
tblLandUse	LotAcreage	0.21	0.43
tblLandUse	LotAcreage	2.62	2.63
tblLandUse	LotAcreage	1.27	0.94
tblLandUse	LotAcreage	11.16	5.92
tblLandUse	LotAcreage	7.44	4.58
tblLandUse	LotAcreage	25.00	6.40
tblLandUse	LotAcreage	1.14	0.96

**2.0 Emissions Summary**

**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					
2030	3.9110	50.8309	32.1516	0.2166	18.2032	0.7593	18.6403	9.9670	0.7476	10.4041	0.0000	23,257.18 24	23,257.18 24	0.9403	2.5307	24,034.82 55
2031	3.8967	50.1709	32.1457	0.2140	11.8213	0.7539	12.5752	4.7583	0.7424	5.5006	0.0000	22,970.15 63	22,970.15 63	0.9301	2.4853	23,734.03 56
2032	2.8979	17.8579	30.9305	0.1029	7.2370	0.2128	7.4498	1.9487	0.2093	2.1580	0.0000	10,707.67 30	10,707.67 30	0.2901	0.6506	10,908.81 8
2033	2.8249	17.7430	30.6061	0.1018	7.2369	0.2110	7.4479	1.9487	0.2077	2.1563	0.0000	10,608.34 55	10,608.34 55	0.2839	0.6417	10,806.67 15
2034	232.9240	17.6366	30.3180	0.1008	7.2369	0.3309	7.4462	1.9486	0.3309	2.1547	0.0000	10,519.53 60	10,519.53 60	0.2782	0.6337	10,715.34 08
<b>Maximum</b>	<b>232.9240</b>	<b>50.8309</b>	<b>32.1516</b>	<b>0.2166</b>	<b>18.2032</b>	<b>0.7593</b>	<b>18.6403</b>	<b>9.9670</b>	<b>0.7476</b>	<b>10.4041</b>	<b>0.0000</b>	<b>23,257.18 24</b>	<b>23,257.18 24</b>	<b>0.9403</b>	<b>2.5307</b>	<b>24,034.82 55</b>



Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.0697	0.5889	51.0974	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0882	0.0000	94.4838
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	19.0145	23.4860	195.4324	0.3535	49.1254	0.2279	49.3532	13.0855	0.2128	13.2983		38,809.9181	38,809.9181	2.9188	2.0536	39,494.8701
<b>Total</b>	<b>47.5858</b>	<b>28.5058</b>	<b>249.4084</b>	<b>0.3836</b>	<b>49.1254</b>	<b>0.8584</b>	<b>49.9838</b>	<b>13.0855</b>	<b>0.8434</b>	<b>13.9289</b>	<b>0.0000</b>	<b>44,375.2129</b>	<b>44,375.2129</b>	<b>3.1119</b>	<b>2.1540</b>	<b>45,094.8934</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	28.0697	0.5889	51.0974	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0882	0.0000	94.4838
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	19.0145	23.4860	195.4324	0.3535	49.1254	0.2279	49.3532	13.0855	0.2128	13.2983		38,809.9181	38,809.9181	2.9188	2.0536	39,494.8701
<b>Total</b>	<b>47.5858</b>	<b>28.5058</b>	<b>249.4084</b>	<b>0.3836</b>	<b>49.1254</b>	<b>0.8584</b>	<b>49.9838</b>	<b>13.0855</b>	<b>0.8434</b>	<b>13.9289</b>	<b>0.0000</b>	<b>44,375.2129</b>	<b>44,375.2129</b>	<b>3.1119</b>	<b>2.1540</b>	<b>45,094.8934</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2030	9/6/2030	5	50	
2	Site Preparation	Site Preparation	9/9/2030	10/16/2030	5	28	
3	Grading	Grading	10/17/2030	2/3/2031	5	78	
4	Building Construction	Building Construction	2/4/2031	2/3/2034	5	784	
5	Paving	Paving	2/6/2034	4/19/2034	5	53	
6	Architectural Coating	Architectural Coating	4/20/2034	7/3/2034	5	53	

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

**Acres of Grading (Grading Phase): 37**

**Acres of Paving: 10**

**Residential Indoor: 1,398,078; Residential Outdoor: 466,026; Non-Residential Indoor: 576,626; Non-Residential Outdoor: 192,209; Striped Parking Area: 26,136 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	973.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	21,044.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	782.00	214.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	156.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area



Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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					4.3928	0.0000	4.3928	0.6651	0.0000	0.6651			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>	<b>4.3928</b>	<b>0.3511</b>	<b>4.7439</b>	<b>0.6651</b>	<b>0.3511</b>	<b>1.0162</b>		<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0426	2.6662	0.6348	0.0105	0.3389	0.0195	0.3584	0.0928	0.0187	0.1115		1,149.4053	1,149.4053	0.0466	0.1823	1,204.9064
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0723</b>	<b>2.6819</b>	<b>0.8798</b>	<b>0.0113</b>	<b>0.4530</b>	<b>0.0199</b>	<b>0.4729</b>	<b>0.1230</b>	<b>0.0191</b>	<b>0.1421</b>		<b>1,230.8813</b>	<b>1,230.8813</b>	<b>0.0485</b>	<b>0.1844</b>	<b>1,287.0447</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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					1.9768	0.0000	1.9768	0.2993	0.0000	0.2993			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0462		0.0616	0.0616		0.0616	0.0616	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0462</b>	<b>1.9768</b>	<b>0.0616</b>	<b>2.0384</b>	<b>0.2993</b>	<b>0.0616</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0426	2.6662	0.6348	0.0105	0.3389	0.0195	0.3584	0.0928	0.0187	0.1115		1,149.4053	1,149.4053	0.0466	0.1823	1,204.9064
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0723</b>	<b>2.6819</b>	<b>0.8798</b>	<b>0.0113</b>	<b>0.4530</b>	<b>0.0199</b>	<b>0.4729</b>	<b>0.1230</b>	<b>0.0191</b>	<b>0.1421</b>		<b>1,230.8813</b>	<b>1,230.8813</b>	<b>0.0485</b>	<b>0.1844</b>	<b>1,287.0447</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.0663</b>	<b>0.4367</b>	<b>18.5029</b>	<b>9.9307</b>	<b>0.4367</b>	<b>10.3673</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0357	0.0189	0.2940	9.0000e-004	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		97.7713	97.7713	2.2300e-003	2.4800e-003	98.5659
<b>Total</b>	<b>0.0357</b>	<b>0.0189</b>	<b>0.2940</b>	<b>9.0000e-004</b>	<b>0.1369</b>	<b>4.8000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.4000e-004</b>	<b>0.0368</b>		<b>97.7713</b>	<b>97.7713</b>	<b>2.2300e-003</b>	<b>2.4800e-003</b>	<b>98.5659</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>8.1298</b>	<b>0.0621</b>	<b>8.1919</b>	<b>4.4688</b>	<b>0.0621</b>	<b>4.5309</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0357	0.0189	0.2940	9.0000e-004	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		97.7713	97.7713	2.2300e-003	2.4800e-003	98.5659
<b>Total</b>	<b>0.0357</b>	<b>0.0189</b>	<b>0.2940</b>	<b>9.0000e-004</b>	<b>0.1369</b>	<b>4.8000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.4000e-004</b>	<b>0.0368</b>		<b>97.7713</b>	<b>97.7713</b>	<b>2.2300e-003</b>	<b>2.4800e-003</b>	<b>98.5659</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					6.9715	0.0000	6.9715	3.4321	0.0000	3.4321			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>6.9715</b>	<b>0.4879</b>	<b>7.4594</b>	<b>3.4321</b>	<b>0.4879</b>	<b>3.9201</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.5907	36.9638	8.8010	0.1457	4.6983	0.2709	4.9691	1.2860	0.2591	1.5451		15,935.4390	15,935.4390	0.6463	2.5279	16,704.9115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0396	0.0210	0.3267	1.0000e-003	0.1521	5.3000e-004	0.1527	0.0404	4.9000e-004	0.0408		108.6348	108.6348	2.4800e-003	2.7600e-003	109.5177
<b>Total</b>	<b>0.6303</b>	<b>36.9848</b>	<b>9.1277</b>	<b>0.1467</b>	<b>4.8504</b>	<b>0.2714</b>	<b>5.1218</b>	<b>1.3263</b>	<b>0.2596</b>	<b>1.5860</b>		<b>16,044.0738</b>	<b>16,044.0738</b>	<b>0.6488</b>	<b>2.5307</b>	<b>16,814.4292</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					3.1372	0.0000	3.1372	1.5445	0.0000	1.5445			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>3.1372</b>	<b>0.1015</b>	<b>3.2387</b>	<b>1.5445</b>	<b>0.1015</b>	<b>1.6460</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.5907	36.9638	8.8010	0.1457	4.6983	0.2709	4.9691	1.2860	0.2591	1.5451		15,935.4390	15,935.4390	0.6463	2.5279	16,704.9115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0396	0.0210	0.3267	1.0000e-003	0.1521	5.3000e-004	0.1527	0.0404	4.9000e-004	0.0408		108.6348	108.6348	2.4800e-003	2.7600e-003	109.5177
<b>Total</b>	<b>0.6303</b>	<b>36.9848</b>	<b>9.1277</b>	<b>0.1467</b>	<b>4.8504</b>	<b>0.2714</b>	<b>5.1218</b>	<b>1.3263</b>	<b>0.2596</b>	<b>1.5860</b>		<b>16,044.0738</b>	<b>16,044.0738</b>	<b>0.6488</b>	<b>2.5307</b>	<b>16,814.4292</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					6.9715	0.0000	6.9715	3.4321	0.0000	3.4321			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>6.9715</b>	<b>0.4879</b>	<b>7.4594</b>	<b>3.4321</b>	<b>0.4879</b>	<b>3.9201</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.5786	36.3049	8.8060	0.1431	4.6977	0.2655	4.9631	1.2858	0.2540	1.5398		15,650.0766	15,650.0766	0.6362	2.4827	16,405.8142
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0374	0.0198	0.3158	9.8000e-004	0.1521	5.0000e-004	0.1526	0.0404	4.6000e-004	0.0408		106.9712	106.9712	2.3100e-003	2.6700e-003	107.8251
<b>Total</b>	<b>0.6160</b>	<b>36.3247</b>	<b>9.1218</b>	<b>0.1441</b>	<b>4.8498</b>	<b>0.2660</b>	<b>5.1158</b>	<b>1.3261</b>	<b>0.2545</b>	<b>1.5806</b>		<b>15,757.0478</b>	<b>15,757.0478</b>	<b>0.6385</b>	<b>2.4853</b>	<b>16,513.6393</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					3.1372	0.0000	3.1372	1.5445	0.0000	1.5445			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>3.1372</b>	<b>0.1015</b>	<b>3.2387</b>	<b>1.5445</b>	<b>0.1015</b>	<b>1.6460</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.5786	36.3049	8.8060	0.1431	4.6977	0.2655	4.9631	1.2858	0.2540	1.5398		15,650.0766	15,650.0766	0.6362	2.4827	16,405.8142
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0374	0.0198	0.3158	9.8000e-004	0.1521	5.0000e-004	0.1526	0.0404	4.6000e-004	0.0408		106.9712	106.9712	2.3100e-003	2.6700e-003	107.8251
<b>Total</b>	<b>0.6160</b>	<b>36.3247</b>	<b>9.1218</b>	<b>0.1441</b>	<b>4.8498</b>	<b>0.2660</b>	<b>5.1158</b>	<b>1.3261</b>	<b>0.2545</b>	<b>1.5806</b>		<b>15,757.0478</b>	<b>15,757.0478</b>	<b>0.6385</b>	<b>2.4853</b>	<b>16,513.6393</b>



Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2107	9.2881	2.8065	0.0348	1.2884	0.0472	1.3356	0.3708	0.0452	0.4159		3,740.4126	3,740.4126	0.0909	0.5565	3,908.5149
Worker	1.4626	0.7734	12.3482	0.0384	5.9487	0.0194	5.9681	1.5779	0.0179	1.5958		4,182.5736	4,182.5736	0.0902	0.1045	4,215.9611
<b>Total</b>	<b>1.6733</b>	<b>10.0616</b>	<b>15.1546</b>	<b>0.0732</b>	<b>7.2371</b>	<b>0.0666</b>	<b>7.3037</b>	<b>1.9487</b>	<b>0.0630</b>	<b>2.0117</b>		<b>7,922.9863</b>	<b>7,922.9863</b>	<b>0.1811</b>	<b>0.6610</b>	<b>8,124.4760</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2107	9.2881	2.8065	0.0348	1.2884	0.0472	1.3356	0.3708	0.0452	0.4159		3,740.4126	3,740.4126	0.0909	0.5565	3,908.5149
Worker	1.4626	0.7734	12.3482	0.0384	5.9487	0.0194	5.9681	1.5779	0.0179	1.5958		4,182.5736	4,182.5736	0.0902	0.1045	4,215.9611
<b>Total</b>	<b>1.6733</b>	<b>10.0616</b>	<b>15.1546</b>	<b>0.0732</b>	<b>7.2371</b>	<b>0.0666</b>	<b>7.3037</b>	<b>1.9487</b>	<b>0.0630</b>	<b>2.0117</b>		<b>7,922.9863</b>	<b>7,922.9863</b>	<b>0.1811</b>	<b>0.6610</b>	<b>8,124.4760</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2062	9.1901	2.7925	0.0343	1.2883	0.0464	1.3348	0.3707	0.0444	0.4152		3,684.5950	3,684.5950	0.0895	0.5488	3,850.3779
Worker	1.3825	0.7332	11.9810	0.0377	5.9487	0.0182	5.9669	1.5779	0.0167	1.5947		4,125.5313	4,125.5313	0.0844	0.1018	4,157.9811
<b>Total</b>	<b>1.5887</b>	<b>9.9233</b>	<b>14.7735</b>	<b>0.0720</b>	<b>7.2370</b>	<b>0.0646</b>	<b>7.3016</b>	<b>1.9487</b>	<b>0.0612</b>	<b>2.0099</b>		<b>7,810.1262</b>	<b>7,810.1262</b>	<b>0.1739</b>	<b>0.6506</b>	<b>8,008.3590</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2062	9.1901	2.7925	0.0343	1.2883	0.0464	1.3348	0.3707	0.0444	0.4152		3,684.5950	3,684.5950	0.0895	0.5488	3,850.3779
Worker	1.3825	0.7332	11.9810	0.0377	5.9487	0.0182	5.9669	1.5779	0.0167	1.5947		4,125.5313	4,125.5313	0.0844	0.1018	4,157.9811
<b>Total</b>	<b>1.5887</b>	<b>9.9233</b>	<b>14.7735</b>	<b>0.0720</b>	<b>7.2370</b>	<b>0.0646</b>	<b>7.3016</b>	<b>1.9487</b>	<b>0.0612</b>	<b>2.0099</b>		<b>7,810.1262</b>	<b>7,810.1262</b>	<b>0.1739</b>	<b>0.6506</b>	<b>8,008.3590</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2033**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2024	9.1075	2.7828	0.0338	1.2883	0.0458	1.3340	0.3707	0.0438	0.4145		3,635.2276	3,635.2276	0.0884	0.5420	3,798.9629
Worker	1.3134	0.7010	11.6663	0.0370	5.9487	0.0171	5.9658	1.5779	0.0157	1.5937		4,075.5711	4,075.5711	0.0793	0.0997	4,107.2557
<b>Total</b>	<b>1.5158</b>	<b>9.8084</b>	<b>14.4492</b>	<b>0.0709</b>	<b>7.2369</b>	<b>0.0629</b>	<b>7.2998</b>	<b>1.9487</b>	<b>0.0595</b>	<b>2.0082</b>		<b>7,710.7988</b>	<b>7,710.7988</b>	<b>0.1677</b>	<b>0.6417</b>	<b>7,906.2186</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2033**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2024	9.1075	2.7828	0.0338	1.2883	0.0458	1.3340	0.3707	0.0438	0.4145		3,635.2276	3,635.2276	0.0884	0.5420	3,798.9629
Worker	1.3134	0.7010	11.6663	0.0370	5.9487	0.0171	5.9658	1.5779	0.0157	1.5937		4,075.5711	4,075.5711	0.0793	0.0997	4,107.2557
<b>Total</b>	<b>1.5158</b>	<b>9.8084</b>	<b>14.4492</b>	<b>0.0709</b>	<b>7.2369</b>	<b>0.0629</b>	<b>7.2998</b>	<b>1.9487</b>	<b>0.0595</b>	<b>2.0082</b>		<b>7,710.7988</b>	<b>7,710.7988</b>	<b>0.1677</b>	<b>0.6417</b>	<b>7,906.2186</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2034**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1989	9.0277	2.7750	0.0334	1.2882	0.0451	1.3333	0.3707	0.0432	0.4139		3,590.0611	3,590.0611	0.0873	0.5358	3,751.9151
Worker	1.2510	0.6742	11.3861	0.0365	5.9487	0.0161	5.9647	1.5779	0.0148	1.5927		4,031.9282	4,031.9282	0.0747	0.0979	4,062.9728
<b>Total</b>	<b>1.4499</b>	<b>9.7019</b>	<b>14.1610</b>	<b>0.0699</b>	<b>7.2369</b>	<b>0.0612</b>	<b>7.2981</b>	<b>1.9486</b>	<b>0.0579</b>	<b>2.0066</b>		<b>7,621.9892</b>	<b>7,621.9892</b>	<b>0.1620</b>	<b>0.6337</b>	<b>7,814.8879</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1989	9.0277	2.7750	0.0334	1.2882	0.0451	1.3333	0.3707	0.0432	0.4139		3,590.0611	3,590.0611	0.0873	0.5358	3,751.9151
Worker	1.2510	0.6742	11.3861	0.0365	5.9487	0.0161	5.9647	1.5779	0.0148	1.5927		4,031.9282	4,031.9282	0.0747	0.0979	4,062.9728
<b>Total</b>	<b>1.4499</b>	<b>9.7019</b>	<b>14.1610</b>	<b>0.0699</b>	<b>7.2369</b>	<b>0.0612</b>	<b>7.2981</b>	<b>1.9486</b>	<b>0.0579</b>	<b>2.0066</b>		<b>7,621.9892</b>	<b>7,621.9892</b>	<b>0.1620</b>	<b>0.6337</b>	<b>7,814.8879</b>



Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2034**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.4943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8789</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0240	0.0129	0.2184	7.0000e-004	0.1141	3.1000e-004	0.1144	0.0303	2.8000e-004	0.0306		77.3388	77.3388	1.4300e-003	1.8800e-003	77.9343
<b>Total</b>	<b>0.0240</b>	<b>0.0129</b>	<b>0.2184</b>	<b>7.0000e-004</b>	<b>0.1141</b>	<b>3.1000e-004</b>	<b>0.1144</b>	<b>0.0303</b>	<b>2.8000e-004</b>	<b>0.0306</b>		<b>77.3388</b>	<b>77.3388</b>	<b>1.4300e-003</b>	<b>1.8800e-003</b>	<b>77.9343</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.4943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7748</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0240	0.0129	0.2184	7.0000e-004	0.1141	3.1000e-004	0.1144	0.0303	2.8000e-004	0.0306		77.3388	77.3388	1.4300e-003	1.8800e-003	77.9343
<b>Total</b>	<b>0.0240</b>	<b>0.0129</b>	<b>0.2184</b>	<b>7.0000e-004</b>	<b>0.1141</b>	<b>3.1000e-004</b>	<b>0.1144</b>	<b>0.0303</b>	<b>2.8000e-004</b>	<b>0.0306</b>		<b>77.3388</b>	<b>77.3388</b>	<b>1.4300e-003</b>	<b>1.8800e-003</b>	<b>77.9343</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2034**

**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	232.5436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>232.6744</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2496	0.1345	2.2714	7.2700e-003	1.1867	3.2100e-003	1.1899	0.3148	2.9500e-003	0.3177		804.3233	804.3233	0.0149	0.0195	810.5163
<b>Total</b>	<b>0.2496</b>	<b>0.1345</b>	<b>2.2714</b>	<b>7.2700e-003</b>	<b>1.1867</b>	<b>3.2100e-003</b>	<b>1.1899</b>	<b>0.3148</b>	<b>2.9500e-003</b>	<b>0.3177</b>		<b>804.3233</b>	<b>804.3233</b>	<b>0.0149</b>	<b>0.0195</b>	<b>810.5163</b>

Innovation Park PUD - Part 3 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2034**

**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	232.5436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>232.5733</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2496	0.1345	2.2714	7.2700e-003	1.1867	3.2100e-003	1.1899	0.3148	2.9500e-003	0.3177		804.3233	804.3233	0.0149	0.0195	810.5163
<b>Total</b>	<b>0.2496</b>	<b>0.1345</b>	<b>2.2714</b>	<b>7.2700e-003</b>	<b>1.1867</b>	<b>3.2100e-003</b>	<b>1.1899</b>	<b>0.3148</b>	<b>2.9500e-003</b>	<b>0.3177</b>		<b>804.3233</b>	<b>804.3233</b>	<b>0.0149</b>	<b>0.0195</b>	<b>810.5163</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park PUD - Part 4**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	91.50	1000sqft	1.83	91,476.00	0
Elementary School	65.30	1000sqft	1.50	65,340.00	0
General Light Industry	9.30	1000sqft	0.43	9,256.50	0
Parking Lot	435.60	1000sqft	10.00	435,600.00	0
City Park	1.80	Acre	1.80	78,408.00	0
Health Club	114.30	1000sqft	2.63	114,345.00	0
Hotel	38.00	Room	0.94	54,450.00	0
Apartments Mid Rise	424.00	Dwelling Unit	5.92	433,759.00	1132
Condo/townhouse	119.00	Dwelling Unit	4.58	118,500.00	318
Single Family Housing	77.00	Dwelling Unit	6.40	138,150.00	206
Strip Mall	49.50	1000sqft	0.96	49,549.50	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2040
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - One quarter build out, construction only

Land Use - 1/4 of land use

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Phase - Adjusted for 4 year schedule

Trips and VMT -

Demolition -

Grading - Acre graded = site acreage

Architectural Coating -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	740.00	784.00
tblConstructionPhase	NumDays	75.00	78.00
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	30.00	28.00
tblGrading	AcresOfGrading	234.00	37.00
tblGrading	AcresOfGrading	42.00	0.00
tblGrading	MaterialExported	0.00	56,930.00
tblGrading	MaterialImported	0.00	111,420.00
tblLandUse	LandUseSquareFeet	91,500.00	91,476.00
tblLandUse	LandUseSquareFeet	65,300.00	65,340.00
tblLandUse	LandUseSquareFeet	9,300.00	9,256.50
tblLandUse	LandUseSquareFeet	114,300.00	114,345.00
tblLandUse	LandUseSquareFeet	55,176.00	54,450.00
tblLandUse	LandUseSquareFeet	424,000.00	433,759.00
tblLandUse	LandUseSquareFeet	119,000.00	118,500.00
tblLandUse	LandUseSquareFeet	138,600.00	138,150.00
tblLandUse	LandUseSquareFeet	49,500.00	49,549.50

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LotAcreage	2.10	1.83
tblLandUse	LotAcreage	0.21	0.43
tblLandUse	LotAcreage	2.62	2.63
tblLandUse	LotAcreage	1.27	0.94
tblLandUse	LotAcreage	11.16	5.92
tblLandUse	LotAcreage	7.44	4.58
tblLandUse	LotAcreage	25.00	6.40
tblLandUse	LotAcreage	1.14	0.96

**2.0 Emissions Summary**

**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					
2034	3.8642	48.6353	32.1462	0.2078	18.2032	0.7413	18.6402	9.9670	0.7303	10.4040	0.0000	22,288.2706	22,288.2706	0.9054	2.3775	23,019.4001
2035	3.4867	43.9776	31.6455	0.2061	11.8196	0.5641	12.3837	4.7576	0.5533	5.3109	0.0000	22,107.0510	22,107.0510	0.8640	2.3488	22,828.5968
2036	2.6067	16.7719	30.0320	0.1000	7.2368	0.1501	7.3869	1.9486	0.1470	2.0956	0.0000	10,441.9965	10,441.9965	0.2650	0.6268	10,635.4043
2037	2.6067	16.7719	30.0320	0.1000	7.2368	0.1501	7.3869	1.9486	0.1470	2.0956	0.0000	10,441.9965	10,441.9965	0.2650	0.6268	10,635.4043
2038	232.8997	16.7719	30.0320	0.1000	7.2368	0.1877	7.3869	1.9486	0.1877	2.0956	0.0000	10,441.9965	10,441.9965	0.2650	0.6268	10,635.4043
<b>Maximum</b>	<b>232.8997</b>	<b>48.6353</b>	<b>32.1462</b>	<b>0.2078</b>	<b>18.2032</b>	<b>0.7413</b>	<b>18.6402</b>	<b>9.9670</b>	<b>0.7303</b>	<b>10.4040</b>	<b>0.0000</b>	<b>22,288.2706</b>	<b>22,288.2706</b>	<b>0.9054</b>	<b>2.3775</b>	<b>23,019.4001</b>





Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.0669	0.5886	51.0078	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0881	0.0000	94.4817
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	16.5976	20.9982	183.4532	0.3311	49.0956	0.1796	49.2752	13.0730	0.1679	13.2409		36,971.9355	36,971.9355	2.6958	1.9351	37,615.9809
<b>Total</b>	<b>45.1662</b>	<b>26.0177</b>	<b>237.3395</b>	<b>0.3612</b>	<b>49.0956</b>	<b>0.8102</b>	<b>49.9058</b>	<b>13.0730</b>	<b>0.7984</b>	<b>13.8715</b>	<b>0.0000</b>	<b>42,537.2303</b>	<b>42,537.2303</b>	<b>2.8888</b>	<b>2.0354</b>	<b>43,216.0021</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	28.0669	0.5886	51.0078	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0881	0.0000	94.4817
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	16.5976	20.9982	183.4532	0.3311	49.0956	0.1796	49.2752	13.0730	0.1679	13.2409		36,971.9355	36,971.9355	2.6958	1.9351	37,615.9809
<b>Total</b>	<b>45.1662</b>	<b>26.0177</b>	<b>237.3395</b>	<b>0.3612</b>	<b>49.0956</b>	<b>0.8102</b>	<b>49.9058</b>	<b>13.0730</b>	<b>0.7984</b>	<b>13.8715</b>	<b>0.0000</b>	<b>42,537.2303</b>	<b>42,537.2303</b>	<b>2.8888</b>	<b>2.0354</b>	<b>43,216.0021</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/3/2034	9/8/2034	5	50	
2	Site Preparation	Site Preparation	9/11/2034	10/18/2034	5	28	
3	Grading	Grading	10/19/2034	2/5/2035	5	78	
4	Building Construction	Building Construction	2/6/2035	2/5/2038	5	784	
5	Paving	Paving	2/8/2038	4/21/2038	5	53	
6	Architectural Coating	Architectural Coating	4/22/2038	7/5/2038	5	53	

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

**Acres of Grading (Grading Phase): 37**

**Acres of Paving: 10**

**Residential Indoor: 1,398,078; Residential Outdoor: 466,026; Non-Residential Indoor: 576,626; Non-Residential Outdoor: 192,209; Striped Parking Area: 26,136 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	973.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	21,044.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	782.00	214.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	156.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2034**

**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					4.3928	0.0000	4.3928	0.6651	0.0000	0.6651			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>	<b>4.3928</b>	<b>0.3511</b>	<b>4.7439</b>	<b>0.6651</b>	<b>0.3511</b>	<b>1.0162</b>		<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0398	2.5081	0.6370	9.8700e-003	0.3387	0.0183	0.3570	0.0927	0.0175	0.1102		1,079.9166	1,079.9166	0.0441	0.1713	1,132.0693
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0240	0.0129	0.2184	7.0000e-004	0.1141	3.1000e-004	0.1144	0.0303	2.8000e-004	0.0306		77.3388	77.3388	1.4300e-003	1.8800e-003	77.9343
<b>Total</b>	<b>0.0638</b>	<b>2.5210</b>	<b>0.8554</b>	<b>0.0106</b>	<b>0.4528</b>	<b>0.0186</b>	<b>0.4714</b>	<b>0.1230</b>	<b>0.0177</b>	<b>0.1407</b>		<b>1,157.2554</b>	<b>1,157.2554</b>	<b>0.0456</b>	<b>0.1732</b>	<b>1,210.0035</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2034**

**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					1.9768	0.0000	1.9768	0.2993	0.0000	0.2993			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0462		0.0616	0.0616		0.0616	0.0616	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0462</b>	<b>1.9768</b>	<b>0.0616</b>	<b>2.0384</b>	<b>0.2993</b>	<b>0.0616</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0398	2.5081	0.6370	9.8700e-003	0.3387	0.0183	0.3570	0.0927	0.0175	0.1102		1,079.9166	1,079.9166	0.0441	0.1713	1,132.0693
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0240	0.0129	0.2184	7.0000e-004	0.1141	3.1000e-004	0.1144	0.0303	2.8000e-004	0.0306		77.3388	77.3388	1.4300e-003	1.8800e-003	77.9343
<b>Total</b>	<b>0.0638</b>	<b>2.5210</b>	<b>0.8554</b>	<b>0.0106</b>	<b>0.4528</b>	<b>0.0186</b>	<b>0.4714</b>	<b>0.1230</b>	<b>0.0177</b>	<b>0.1407</b>		<b>1,157.2554</b>	<b>1,157.2554</b>	<b>0.0456</b>	<b>0.1732</b>	<b>1,210.0035</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2034**

**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	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.0663</b>	<b>0.4367</b>	<b>18.5029</b>	<b>9.9307</b>	<b>0.4367</b>	<b>10.3673</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0288	0.0155	0.2621	8.4000e-004	0.1369	3.7000e-004	0.1373	0.0363	3.4000e-004	0.0367		92.8065	92.8065	1.7200e-003	2.2500e-003	93.5211
<b>Total</b>	<b>0.0288</b>	<b>0.0155</b>	<b>0.2621</b>	<b>8.4000e-004</b>	<b>0.1369</b>	<b>3.7000e-004</b>	<b>0.1373</b>	<b>0.0363</b>	<b>3.4000e-004</b>	<b>0.0367</b>		<b>92.8065</b>	<b>92.8065</b>	<b>1.7200e-003</b>	<b>2.2500e-003</b>	<b>93.5211</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2034**

**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	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>8.1298</b>	<b>0.0621</b>	<b>8.1919</b>	<b>4.4688</b>	<b>0.0621</b>	<b>4.5309</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0288	0.0155	0.2621	8.4000e-004	0.1369	3.7000e-004	0.1373	0.0363	3.4000e-004	0.0367		92.8065	92.8065	1.7200e-003	2.2500e-003	93.5211
<b>Total</b>	<b>0.0288</b>	<b>0.0155</b>	<b>0.2621</b>	<b>8.4000e-004</b>	<b>0.1369</b>	<b>3.7000e-004</b>	<b>0.1373</b>	<b>0.0363</b>	<b>3.4000e-004</b>	<b>0.0367</b>		<b>92.8065</b>	<b>92.8065</b>	<b>1.7200e-003</b>	<b>2.2500e-003</b>	<b>93.5211</b>



Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2034**

**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					6.9715	0.0000	6.9715	3.4321	0.0000	3.4321			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>6.9715</b>	<b>0.4879</b>	<b>7.4594</b>	<b>3.4321</b>	<b>0.4879</b>	<b>3.9201</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.5515	34.7719	8.8311	0.1369	4.6963	0.2530	4.9493	1.2853	0.2420	1.5273		14,972.0436	14,972.0436	0.6120	2.3750	15,695.0915
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0320	0.0172	0.2912	9.3000e-004	0.1521	4.1000e-004	0.1526	0.0404	3.8000e-004	0.0407		103.1184	103.1184	1.9100e-003	2.5000e-003	103.9124
<b>Total</b>	<b>0.5835</b>	<b>34.7891</b>	<b>9.1223</b>	<b>0.1378</b>	<b>4.8485</b>	<b>0.2534</b>	<b>5.1018</b>	<b>1.3256</b>	<b>0.2424</b>	<b>1.5680</b>		<b>15,075.1620</b>	<b>15,075.1620</b>	<b>0.6139</b>	<b>2.3775</b>	<b>15,799.0038</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2034**

**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					3.1372	0.0000	3.1372	1.5445	0.0000	1.5445			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>3.1372</b>	<b>0.1015</b>	<b>3.2387</b>	<b>1.5445</b>	<b>0.1015</b>	<b>1.6460</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.5515	34.7719	8.8311	0.1369	4.6963	0.2530	4.9493	1.2853	0.2420	1.5273		14,972.0436	14,972.0436	0.6120	2.3750	15,695.0915
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0320	0.0172	0.2912	9.3000e-004	0.1521	4.1000e-004	0.1526	0.0404	3.8000e-004	0.0407		103.1184	103.1184	1.9100e-003	2.5000e-003	103.9124
<b>Total</b>	<b>0.5835</b>	<b>34.7891</b>	<b>9.1223</b>	<b>0.1378</b>	<b>4.8485</b>	<b>0.2534</b>	<b>5.1018</b>	<b>1.3256</b>	<b>0.2424</b>	<b>1.5680</b>		<b>15,075.1620</b>	<b>15,075.1620</b>	<b>0.6139</b>	<b>2.3775</b>	<b>15,799.0038</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2035**

**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					6.9715	0.0000	6.9715	3.4321	0.0000	3.4321			0.0000			0.0000
Off-Road	2.9116	9.5942	22.5250	0.0699		0.3142	0.3142		0.3142	0.3142		7,213.1148	7,213.1148	0.2560		7,219.5135
<b>Total</b>	<b>2.9116</b>	<b>9.5942</b>	<b>22.5250</b>	<b>0.0699</b>	<b>6.9715</b>	<b>0.3142</b>	<b>7.2857</b>	<b>3.4321</b>	<b>0.3142</b>	<b>3.7464</b>		<b>7,213.1148</b>	<b>7,213.1148</b>	<b>0.2560</b>		<b>7,219.5135</b>

**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	0.5446	34.3667	8.8355	0.1353	4.6960	0.2495	4.9455	1.2851	0.2387	1.5239		14,791.7736	14,791.7736	0.6062	2.3463	15,506.1398
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0305	0.0167	0.2851	9.2000e-004	0.1521	3.9000e-004	0.1525	0.0404	3.6000e-004	0.0407		102.1627	102.1627	1.8100e-003	2.4700e-003	102.9434
<b>Total</b>	<b>0.5751</b>	<b>34.3834</b>	<b>9.1205</b>	<b>0.1362</b>	<b>4.8481</b>	<b>0.2499</b>	<b>5.0980</b>	<b>1.3255</b>	<b>0.2391</b>	<b>1.5646</b>		<b>14,893.9362</b>	<b>14,893.9362</b>	<b>0.6081</b>	<b>2.3488</b>	<b>15,609.0833</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2035**

**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					3.1372	0.0000	3.1372	1.5445	0.0000	1.5445			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1148	7,213.1148	0.2560		7,219.5135
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>3.1372</b>	<b>0.1015</b>	<b>3.2387</b>	<b>1.5445</b>	<b>0.1015</b>	<b>1.6460</b>	<b>0.0000</b>	<b>7,213.1148</b>	<b>7,213.1148</b>	<b>0.2560</b>		<b>7,219.5135</b>

**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	0.5446	34.3667	8.8355	0.1353	4.6960	0.2495	4.9455	1.2851	0.2387	1.5239		14,791.7736	14,791.7736	0.6062	2.3463	15,506.1398
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0305	0.0167	0.2851	9.2000e-004	0.1521	3.9000e-004	0.1525	0.0404	3.6000e-004	0.0407		102.1627	102.1627	1.8100e-003	2.4700e-003	102.9434
<b>Total</b>	<b>0.5751</b>	<b>34.3834</b>	<b>9.1205</b>	<b>0.1362</b>	<b>4.8481</b>	<b>0.2499</b>	<b>5.0980</b>	<b>1.3255</b>	<b>0.2391</b>	<b>1.5646</b>		<b>14,893.9362</b>	<b>14,893.9362</b>	<b>0.6081</b>	<b>2.3488</b>	<b>15,609.0833</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2035**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1957	8.9575	2.7686	0.0330	1.2882	0.0445	1.3327	0.3707	0.0426	0.4133		3,549.8900	3,549.8900	0.0865	0.5303	3,710.0714
Worker	1.1943	0.6531	11.1456	0.0360	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		3,994.5597	3,994.5597	0.0706	0.0965	4,025.0881
<b>Total</b>	<b>1.3899</b>	<b>9.6106</b>	<b>13.9142</b>	<b>0.0690</b>	<b>7.2368</b>	<b>0.0597</b>	<b>7.2965</b>	<b>1.9486</b>	<b>0.0565</b>	<b>2.0052</b>		<b>7,544.4497</b>	<b>7,544.4497</b>	<b>0.1571</b>	<b>0.6268</b>	<b>7,735.1595</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1957	8.9575	2.7686	0.0330	1.2882	0.0445	1.3327	0.3707	0.0426	0.4133		3,549.8900	3,549.8900	0.0865	0.5303	3,710.0714
Worker	1.1943	0.6531	11.1456	0.0360	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		3,994.5597	3,994.5597	0.0706	0.0965	4,025.0881
<b>Total</b>	<b>1.3899</b>	<b>9.6106</b>	<b>13.9142</b>	<b>0.0690</b>	<b>7.2368</b>	<b>0.0597</b>	<b>7.2965</b>	<b>1.9486</b>	<b>0.0565</b>	<b>2.0052</b>		<b>7,544.4497</b>	<b>7,544.4497</b>	<b>0.1571</b>	<b>0.6268</b>	<b>7,735.1595</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2036**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1957	8.9575	2.7686	0.0330	1.2882	0.0445	1.3327	0.3707	0.0426	0.4133		3,549.8900	3,549.8900	0.0865	0.5303	3,710.0714
Worker	1.1943	0.6531	11.1456	0.0360	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		3,994.5597	3,994.5597	0.0706	0.0965	4,025.0881
<b>Total</b>	<b>1.3899</b>	<b>9.6106</b>	<b>13.9142</b>	<b>0.0690</b>	<b>7.2368</b>	<b>0.0597</b>	<b>7.2965</b>	<b>1.9486</b>	<b>0.0565</b>	<b>2.0052</b>		<b>7,544.4497</b>	<b>7,544.4497</b>	<b>0.1571</b>	<b>0.6268</b>	<b>7,735.1595</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1957	8.9575	2.7686	0.0330	1.2882	0.0445	1.3327	0.3707	0.0426	0.4133		3,549.8900	3,549.8900	0.0865	0.5303	3,710.0714
Worker	1.1943	0.6531	11.1456	0.0360	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		3,994.5597	3,994.5597	0.0706	0.0965	4,025.0881
<b>Total</b>	<b>1.3899</b>	<b>9.6106</b>	<b>13.9142</b>	<b>0.0690</b>	<b>7.2368</b>	<b>0.0597</b>	<b>7.2965</b>	<b>1.9486</b>	<b>0.0565</b>	<b>2.0052</b>		<b>7,544.4497</b>	<b>7,544.4497</b>	<b>0.1571</b>	<b>0.6268</b>	<b>7,735.1595</b>



Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2037**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1957	8.9575	2.7686	0.0330	1.2882	0.0445	1.3327	0.3707	0.0426	0.4133		3,549.8900	3,549.8900	0.0865	0.5303	3,710.0714
Worker	1.1943	0.6531	11.1456	0.0360	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		3,994.5597	3,994.5597	0.0706	0.0965	4,025.0881
<b>Total</b>	<b>1.3899</b>	<b>9.6106</b>	<b>13.9142</b>	<b>0.0690</b>	<b>7.2368</b>	<b>0.0597</b>	<b>7.2965</b>	<b>1.9486</b>	<b>0.0565</b>	<b>2.0052</b>		<b>7,544.4497</b>	<b>7,544.4497</b>	<b>0.1571</b>	<b>0.6268</b>	<b>7,735.1595</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1957	8.9575	2.7686	0.0330	1.2882	0.0445	1.3327	0.3707	0.0426	0.4133		3,549.8900	3,549.8900	0.0865	0.5303	3,710.0714
Worker	1.1943	0.6531	11.1456	0.0360	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		3,994.5597	3,994.5597	0.0706	0.0965	4,025.0881
<b>Total</b>	<b>1.3899</b>	<b>9.6106</b>	<b>13.9142</b>	<b>0.0690</b>	<b>7.2368</b>	<b>0.0597</b>	<b>7.2965</b>	<b>1.9486</b>	<b>0.0565</b>	<b>2.0052</b>		<b>7,544.4497</b>	<b>7,544.4497</b>	<b>0.1571</b>	<b>0.6268</b>	<b>7,735.1595</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2038**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1957	8.9575	2.7686	0.0330	1.2882	0.0445	1.3327	0.3707	0.0426	0.4133		3,549.8900	3,549.8900	0.0865	0.5303	3,710.0714
Worker	1.1943	0.6531	11.1456	0.0360	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		3,994.5597	3,994.5597	0.0706	0.0965	4,025.0881
<b>Total</b>	<b>1.3899</b>	<b>9.6106</b>	<b>13.9142</b>	<b>0.0690</b>	<b>7.2368</b>	<b>0.0597</b>	<b>7.2965</b>	<b>1.9486</b>	<b>0.0565</b>	<b>2.0052</b>		<b>7,544.4497</b>	<b>7,544.4497</b>	<b>0.1571</b>	<b>0.6268</b>	<b>7,735.1595</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2038**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1957	8.9575	2.7686	0.0330	1.2882	0.0445	1.3327	0.3707	0.0426	0.4133		3,549.8900	3,549.8900	0.0865	0.5303	3,710.0714
Worker	1.1943	0.6531	11.1456	0.0360	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		3,994.5597	3,994.5597	0.0706	0.0965	4,025.0881
<b>Total</b>	<b>1.3899</b>	<b>9.6106</b>	<b>13.9142</b>	<b>0.0690</b>	<b>7.2368</b>	<b>0.0597</b>	<b>7.2965</b>	<b>1.9486</b>	<b>0.0565</b>	<b>2.0052</b>		<b>7,544.4497</b>	<b>7,544.4497</b>	<b>0.1571</b>	<b>0.6268</b>	<b>7,735.1595</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2038**

**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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.4943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6349</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0727</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0229	0.0125	0.2138	6.9000e-004	0.1141	2.9000e-004	0.1144	0.0303	2.7000e-004	0.0305		76.6220	76.6220	1.3500e-003	1.8500e-003	77.2076
<b>Total</b>	<b>0.0229</b>	<b>0.0125</b>	<b>0.2138</b>	<b>6.9000e-004</b>	<b>0.1141</b>	<b>2.9000e-004</b>	<b>0.1144</b>	<b>0.0303</b>	<b>2.7000e-004</b>	<b>0.0305</b>		<b>76.6220</b>	<b>76.6220</b>	<b>1.3500e-003</b>	<b>1.8500e-003</b>	<b>77.2076</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2038**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.4943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7748</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0726</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0229	0.0125	0.2138	6.9000e-004	0.1141	2.9000e-004	0.1144	0.0303	2.7000e-004	0.0305		76.6220	76.6220	1.3500e-003	1.8500e-003	77.2076
<b>Total</b>	<b>0.0229</b>	<b>0.0125</b>	<b>0.2138</b>	<b>6.9000e-004</b>	<b>0.1141</b>	<b>2.9000e-004</b>	<b>0.1144</b>	<b>0.0303</b>	<b>2.7000e-004</b>	<b>0.0305</b>		<b>76.6220</b>	<b>76.6220</b>	<b>1.3500e-003</b>	<b>1.8500e-003</b>	<b>77.2076</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2038**

**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	232.5436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>232.6615</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2382	0.1303	2.2234	7.1700e-003	1.1867	3.0200e-003	1.1897	0.3148	2.7800e-003	0.3176		796.8687	796.8687	0.0141	0.0193	802.9588
<b>Total</b>	<b>0.2382</b>	<b>0.1303</b>	<b>2.2234</b>	<b>7.1700e-003</b>	<b>1.1867</b>	<b>3.0200e-003</b>	<b>1.1897</b>	<b>0.3148</b>	<b>2.7800e-003</b>	<b>0.3176</b>		<b>796.8687</b>	<b>796.8687</b>	<b>0.0141</b>	<b>0.0193</b>	<b>802.9588</b>

Innovation Park PUD - Part 4 - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2038**

**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	232.5436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>232.5733</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2382	0.1303	2.2234	7.1700e-003	1.1867	3.0200e-003	1.1897	0.3148	2.7800e-003	0.3176		796.8687	796.8687	0.0141	0.0193	802.9588
<b>Total</b>	<b>0.2382</b>	<b>0.1303</b>	<b>2.2234</b>	<b>7.1700e-003</b>	<b>1.1867</b>	<b>3.0200e-003</b>	<b>1.1897</b>	<b>0.3148</b>	<b>2.7800e-003</b>	<b>0.3176</b>		<b>796.8687</b>	<b>796.8687</b>	<b>0.0141</b>	<b>0.0193</b>	<b>802.9588</b>



Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - CNU Phase 1A**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	730.00	1000sqft	16.76	730,000.00	0
General Light Industry	30.00	1000sqft	0.69	30,000.00	0
Enclosed Parking with Elevator	200.00	Space	1.80	80,000.00	0
Parking Lot	837.00	Space	7.53	334,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2026
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics - CNU Phase 1A Construction only
- Land Use - Phase 1A: M1 and M2 + Parking
- Construction Phase - Demolition part of the PUD
- Trips and VMT - Use 7 CY Truck capacity
- Grading - Material import for 20' above grade work
- Construction Off-road Equipment Mitigation - MM Scenario of T4f + Dust BMPs
- Stationary Sources - Process Boilers -

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	48.00
tblConstructionPhase	NumDays	440.00	771.00

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	45.00	107.00
tblConstructionPhase	NumDays	35.00	61.00
tblConstructionPhase	NumDays	35.00	61.00
tblGrading	MaterialImported	0.00	114,286.00
tblTripsAndVMT	HaulingTripNumber	11,300.00	16,327.00

**2.0 Emissions Summary**

**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					
2022	8.0640	124.8510	62.4373	0.3521	30.0848	3.0537	33.1385	12.9458	2.8489	15.7946	0.0000	37,267.5575	37,267.5575	2.9849	4.5139	38,687.3307
2023	3.0758	24.8241	29.1217	0.0897	4.3577	0.7667	5.1244	1.1822	0.7219	1.9040	0.0000	9,161.5806	9,161.5806	0.7994	0.6638	9,379.3777
2024	2.8832	23.6035	28.2838	0.0882	4.3576	0.6787	5.0363	1.1821	0.6389	1.8210	0.0000	9,021.1861	9,021.1861	0.7845	0.6481	9,233.9439
2025	117.7776	22.3642	27.5500	0.0866	4.3575	0.5912	4.9487	1.1821	0.5566	1.7387	0.0000	8,881.3089	8,881.3089	0.7714	0.6325	9,089.0843
<b>Maximum</b>	<b>117.7776</b>	<b>124.8510</b>	<b>62.4373</b>	<b>0.3521</b>	<b>30.0848</b>	<b>3.0537</b>	<b>33.1385</b>	<b>12.9458</b>	<b>2.8489</b>	<b>15.7946</b>	<b>0.0000</b>	<b>37,267.5575</b>	<b>37,267.5575</b>	<b>2.9849</b>	<b>4.5139</b>	<b>38,687.3307</b>



Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.3896	1.6600e-003	0.1830	1.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004		0.3933	0.3933	1.0200e-003		0.4189
Energy	1.4753	13.4121	11.2662	0.0805		1.0193	1.0193		1.0193	1.0193		16,094.5367	16,094.5367	0.3085	0.2951	16,190.1785
Mobile	18.4318	25.3265	185.1322	0.3578	41.4773	0.2842	41.7615	11.0557	0.2654	11.3211		36,524.9205	36,524.9205	2.7796	1.9552	37,177.0546
Stationary	0.0000	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>38.2967</b>	<b>38.7403</b>	<b>196.5814</b>	<b>0.4382</b>	<b>41.4773</b>	<b>1.3041</b>	<b>42.7815</b>	<b>11.0557</b>	<b>1.2854</b>	<b>12.3411</b>		<b>52,619.8505</b>	<b>52,619.8505</b>	<b>3.0891</b>	<b>2.2503</b>	<b>53,367.6519</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.3896	1.6600e-003	0.1830	1.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004		0.3933	0.3933	1.0200e-003		0.4189
Energy	1.4753	13.4121	11.2662	0.0805		1.0193	1.0193		1.0193	1.0193		16,094.5367	16,094.5367	0.3085	0.2951	16,190.1785
Mobile	18.4318	25.3265	185.1322	0.3578	41.4773	0.2842	41.7615	11.0557	0.2654	11.3211		36,524.9205	36,524.9205	2.7796	1.9552	37,177.0546
Stationary	0.0000	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>38.2967</b>	<b>38.7403</b>	<b>196.5814</b>	<b>0.4382</b>	<b>41.4773</b>	<b>1.3041</b>	<b>42.7815</b>	<b>11.0557</b>	<b>1.2854</b>	<b>12.3411</b>		<b>52,619.8505</b>	<b>52,619.8505</b>	<b>3.0891</b>	<b>2.2503</b>	<b>53,367.6519</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
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	Site Preparation	Site Preparation	2/1/2022	4/7/2022	5	48	
2	Building Construction	Building Construction	4/1/2022	3/14/2025	5	771	
3	Grading	Grading	4/8/2022	9/5/2022	5	107	
4	Paving	Paving	3/17/2025	6/9/2025	5	61	

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

5	Architectural Coating	Architectural Coating	6/10/2025	9/2/2025	5	61
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**Acres of Grading (Site Preparation Phase): 72**

**Acres of Grading (Grading Phase): 321**

**Acres of Paving: 9.33**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,140,000; Non-Residential Outdoor: 380,000; Striped Parking Area: 24,888 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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**

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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
Site Preparation	7	18.00	0.00	16,327.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	420.00	193.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	84.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>



Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	1.3748	63.8766	11.8495	0.2210	5.9330	0.5112	6.4442	1.6248	0.4891	2.1139		24,097.35 13	24,097.35 13	0.9656	3.8199	25,259.82 15
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0576	0.0404	0.4612	1.1500e-003	0.1369	7.4000e-004	0.1377	0.0363	6.8000e-004	0.0370		116.9605	116.9605	4.4700e-003	3.9000e-003	118.2347
<b>Total</b>	<b>1.4324</b>	<b>63.9170</b>	<b>12.3106</b>	<b>0.2222</b>	<b>6.0699</b>	<b>0.5120</b>	<b>6.5819</b>	<b>1.6611</b>	<b>0.4898</b>	<b>2.1509</b>		<b>24,214.31 18</b>	<b>24,214.31 18</b>	<b>0.9701</b>	<b>3.8238</b>	<b>25,378.05 62</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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0380</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	1.3748	63.8766	11.8495	0.2210	5.9330	0.5112	6.4442	1.6248	0.4891	2.1139		24,097.35 13	24,097.35 13	0.9656	3.8199	25,259.82 15
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0576	0.0404	0.4612	1.1500e-003	0.1369	7.4000e-004	0.1377	0.0363	6.8000e-004	0.0370		116.9605	116.9605	4.4700e-003	3.9000e-003	118.2347
<b>Total</b>	<b>1.4324</b>	<b>63.9170</b>	<b>12.3106</b>	<b>0.2222</b>	<b>6.0699</b>	<b>0.5120</b>	<b>6.5819</b>	<b>1.6611</b>	<b>0.4898</b>	<b>2.1509</b>		<b>24,214.31 18</b>	<b>24,214.31 18</b>	<b>0.9701</b>	<b>3.8238</b>	<b>25,378.05 62</b>

**3.3 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	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.333 6</b>	<b>2,554.333 6</b>	<b>0.6120</b>		<b>2,569.632 2</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4105	11.2913	3.3052	0.0381	1.1629	0.1028	1.2657	0.3347	0.0984	0.4331		4,083.7728	4,083.7728	0.1064	0.5991	4,264.9662
Worker	1.3447	0.9435	10.7604	0.0268	3.1949	0.0173	3.2123	0.8475	0.0160	0.8635		2,729.0775	2,729.0775	0.1043	0.0910	2,758.8106
<b>Total</b>	<b>1.7552</b>	<b>12.2348</b>	<b>14.0655</b>	<b>0.0649</b>	<b>4.3579</b>	<b>0.1202</b>	<b>4.4780</b>	<b>1.1822</b>	<b>0.1143</b>	<b>1.2966</b>		<b>6,812.8503</b>	<b>6,812.8503</b>	<b>0.2107</b>	<b>0.6901</b>	<b>7,023.7768</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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0269</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4105	11.2913	3.3052	0.0381	1.1629	0.1028	1.2657	0.3347	0.0984	0.4331		4,083.7728	4,083.7728	0.1064	0.5991	4,264.9662
Worker	1.3447	0.9435	10.7604	0.0268	3.1949	0.0173	3.2123	0.8475	0.0160	0.8635		2,729.0775	2,729.0775	0.1043	0.0910	2,758.8106
<b>Total</b>	<b>1.7552</b>	<b>12.2348</b>	<b>14.0655</b>	<b>0.0649</b>	<b>4.3579</b>	<b>0.1202</b>	<b>4.4780</b>	<b>1.1822</b>	<b>0.1143</b>	<b>1.2966</b>		<b>6,812.8503</b>	<b>6,812.8503</b>	<b>0.2107</b>	<b>0.6901</b>	<b>7,023.7768</b>

**3.3 Building Construction - 2023**

Unmitigated Construction On-Site

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

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2497	9.6049	2.9088	0.0368	1.1628	0.0505	1.2132	0.3347	0.0483	0.3830		3,947.442 5	3,947.442 5	0.0970	0.5796	4,122.592 4
Worker	1.2534	0.8343	9.9690	0.0260	3.1949	0.0165	3.2114	0.8475	0.0152	0.8627		2,658.928 2	2,658.928 2	0.0945	0.0842	2,686.379 2
<b>Total</b>	<b>1.5031</b>	<b>10.4392</b>	<b>12.8777</b>	<b>0.0628</b>	<b>4.3577</b>	<b>0.0669</b>	<b>4.4247</b>	<b>1.1822</b>	<b>0.0634</b>	<b>1.2456</b>		<b>6,606.370 7</b>	<b>6,606.370 7</b>	<b>0.1915</b>	<b>0.6638</b>	<b>6,808.971 6</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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0269</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2497	9.6049	2.9088	0.0368	1.1628	0.0505	1.2132	0.3347	0.0483	0.3830		3,947.442 5	3,947.442 5	0.0970	0.5796	4,122.592 4
Worker	1.2534	0.8343	9.9690	0.0260	3.1949	0.0165	3.2114	0.8475	0.0152	0.8627		2,658.928 2	2,658.928 2	0.0945	0.0842	2,686.379 2
<b>Total</b>	<b>1.5031</b>	<b>10.4392</b>	<b>12.8777</b>	<b>0.0628</b>	<b>4.3577</b>	<b>0.0669</b>	<b>4.4247</b>	<b>1.1822</b>	<b>0.0634</b>	<b>1.2456</b>		<b>6,606.370 7</b>	<b>6,606.370 7</b>	<b>0.1915</b>	<b>0.6638</b>	<b>6,808.971 6</b>

**3.3 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2384	9.4169	2.8190	0.0361	1.1626	0.0497	1.2123	0.3346	0.0475	0.3822		3,872.755 2	3,872.755 2	0.0943	0.5699	4,044.933 9
Worker	1.1732	0.7428	9.2980	0.0251	3.1949	0.0157	3.2106	0.8475	0.0144	0.8619		2,592.732 0	2,592.732 0	0.0858	0.0783	2,618.202 3
<b>Total</b>	<b>1.4116</b>	<b>10.1598</b>	<b>12.1170</b>	<b>0.0612</b>	<b>4.3576</b>	<b>0.0654</b>	<b>4.4230</b>	<b>1.1821</b>	<b>0.0620</b>	<b>1.2441</b>		<b>6,465.487 2</b>	<b>6,465.487 2</b>	<b>0.1801</b>	<b>0.6481</b>	<b>6,663.136 2</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	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2384	9.4169	2.8190	0.0361	1.1626	0.0497	1.2123	0.3346	0.0475	0.3822		3,872.755 2	3,872.755 2	0.0943	0.5699	4,044.933 9
Worker	1.1732	0.7428	9.2980	0.0251	3.1949	0.0157	3.2106	0.8475	0.0144	0.8619		2,592.732 0	2,592.732 0	0.0858	0.0783	2,618.202 3
<b>Total</b>	<b>1.4116</b>	<b>10.1598</b>	<b>12.1170</b>	<b>0.0612</b>	<b>4.3576</b>	<b>0.0654</b>	<b>4.4230</b>	<b>1.1821</b>	<b>0.0620</b>	<b>1.2441</b>		<b>6,465.487 2</b>	<b>6,465.487 2</b>	<b>0.1801</b>	<b>0.6481</b>	<b>6,663.136 2</b>

**3.3 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>



Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2295	9.2280	2.7526	0.0354	1.1625	0.0487	1.2112	0.3346	0.0466	0.3811		3,794.653 1	3,794.653 1	0.0923	0.5594	3,963.651 7
Worker	1.1028	0.6665	8.7127	0.0243	3.1949	0.0150	3.2099	0.8475	0.0138	0.8613		2,530.181 5	2,530.181 5	0.0781	0.0732	2,553.934 5
<b>Total</b>	<b>1.3323</b>	<b>9.8945</b>	<b>11.4653</b>	<b>0.0596</b>	<b>4.3575</b>	<b>0.0637</b>	<b>4.4211</b>	<b>1.1821</b>	<b>0.0604</b>	<b>1.2424</b>		<b>6,324.834 6</b>	<b>6,324.834 6</b>	<b>0.1704</b>	<b>0.6325</b>	<b>6,517.586 2</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	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2295	9.2280	2.7526	0.0354	1.1625	0.0487	1.2112	0.3346	0.0466	0.3811		3,794.653 1	3,794.653 1	0.0923	0.5594	3,963.651 7
Worker	1.1028	0.6665	8.7127	0.0243	3.1949	0.0150	3.2099	0.8475	0.0138	0.8613		2,530.181 5	2,530.181 5	0.0781	0.0732	2,553.934 5
<b>Total</b>	<b>1.3323</b>	<b>9.8945</b>	<b>11.4653</b>	<b>0.0596</b>	<b>4.3575</b>	<b>0.0637</b>	<b>4.4211</b>	<b>1.1821</b>	<b>0.0604</b>	<b>1.2424</b>		<b>6,324.834 6</b>	<b>6,324.834 6</b>	<b>0.1704</b>	<b>0.6325</b>	<b>6,517.586 2</b>

**3.4 Grading - 2022**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.015 8
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>		<b>6,011.410 5</b>	<b>6,011.410 5</b>	<b>1.9442</b>		<b>6,060.015 8</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0449	0.5124	1.2800e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		129.9561	129.9561	4.9700e-003	4.3300e-003	131.3719
<b>Total</b>	<b>0.0640</b>	<b>0.0449</b>	<b>0.5124</b>	<b>1.2800e-003</b>	<b>0.1521</b>	<b>8.3000e-004</b>	<b>0.1530</b>	<b>0.0404</b>	<b>7.6000e-004</b>	<b>0.0411</b>		<b>129.9561</b>	<b>129.9561</b>	<b>4.9700e-003</b>	<b>4.3300e-003</b>	<b>131.3719</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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>4.1416</b>	<b>0.1015</b>	<b>4.2432</b>	<b>1.6442</b>	<b>0.1015</b>	<b>1.7457</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0449	0.5124	1.2800e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		129.9561	129.9561	4.9700e-003	4.3300e-003	131.3719
<b>Total</b>	<b>0.0640</b>	<b>0.0449</b>	<b>0.5124</b>	<b>1.2800e-003</b>	<b>0.1521</b>	<b>8.3000e-004</b>	<b>0.1530</b>	<b>0.0404</b>	<b>7.6000e-004</b>	<b>0.0411</b>		<b>129.9561</b>	<b>129.9561</b>	<b>4.9700e-003</b>	<b>4.3300e-003</b>	<b>131.3719</b>

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.3234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2386</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120
<b>Total</b>	<b>0.0394</b>	<b>0.0238</b>	<b>0.3112</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>90.3636</b>	<b>90.3636</b>	<b>2.7900e-003</b>	<b>2.6100e-003</b>	<b>91.2120</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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.3234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6039</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120
<b>Total</b>	<b>0.0394</b>	<b>0.0238</b>	<b>0.3112</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>90.3636</b>	<b>90.3636</b>	<b>2.7900e-003</b>	<b>2.6100e-003</b>	<b>91.2120</b>

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	117.3862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>117.5570</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2206	0.1333	1.7425	4.8600e-003	0.6390	3.0000e-003	0.6420	0.1695	2.7600e-003	0.1723		506.0363	506.0363	0.0156	0.0146	510.7869
<b>Total</b>	<b>0.2206</b>	<b>0.1333</b>	<b>1.7425</b>	<b>4.8600e-003</b>	<b>0.6390</b>	<b>3.0000e-003</b>	<b>0.6420</b>	<b>0.1695</b>	<b>2.7600e-003</b>	<b>0.1723</b>		<b>506.0363</b>	<b>506.0363</b>	<b>0.0156</b>	<b>0.0146</b>	<b>510.7869</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	117.3862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>117.4159</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Innovation Park - CNU Phase 1A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2206	0.1333	1.7425	4.8600e-003	0.6390	3.0000e-003	0.6420	0.1695	2.7600e-003	0.1723		506.0363	506.0363	0.0156	0.0146	510.7869
<b>Total</b>	<b>0.2206</b>	<b>0.1333</b>	<b>1.7425</b>	<b>4.8600e-003</b>	<b>0.6390</b>	<b>3.0000e-003</b>	<b>0.6420</b>	<b>0.1695</b>	<b>2.7600e-003</b>	<b>0.1723</b>		<b>506.0363</b>	<b>506.0363</b>	<b>0.0156</b>	<b>0.0146</b>	<b>510.7869</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - CNU Phase 1B  
Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	200.00	1000sqft	4.59	200,000.00	0
University/College (4yr)	2,000.00	Student	8.44	216,000.00	0
General Light Industry	40.00	1000sqft	0.92	40,000.00	0
Enclosed Parking with Elevator	233.00	Space	2.10	93,200.00	0
Parking Lot	661.00	Space	5.95	264,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2026
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - CNU Phasw 1B Construction ONLY

Land Use - U1, C2, C4 + parking

Construction Phase - Demolition part of PUD

Trips and VMT - Truck capacity = 7 CY

Grading - material import for 20' above grade work

Construction Off-road Equipment Mitigation - MM Tier 4f Scenario + Fugitive dust BMPs

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	35.00	52.00

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	370.00	450.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblLandUse	LandUseSquareFeet	367,594.94	216,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	5,102.00

**2.0 Emissions Summary**

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Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.5925	82.8378	29.6596	0.2527	25.7252	1.6625	27.3876	11.7629	1.5440	13.3069	0.0000	27,103.69 85	27,103.69 85	2.1230	3.6984	28,258.90 81
2024	2.5353	20.5027	25.2379	0.0711	3.2507	0.6596	3.9102	0.8803	0.6207	1.5011	0.0000	7,212.249 9	7,212.249 9	0.7351	0.4527	7,365.537 6
2025	173.4017	19.3399	24.6613	0.0699	3.2506	0.5726	3.8232	0.8803	0.5389	1.4192	0.0000	7,111.248 4	7,111.248 4	0.7244	0.4416	7,260.942 9
<b>Maximum</b>	<b>173.4017</b>	<b>82.8378</b>	<b>29.6596</b>	<b>0.2527</b>	<b>25.7252</b>	<b>1.6625</b>	<b>27.3876</b>	<b>11.7629</b>	<b>1.5440</b>	<b>13.3069</b>	<b>0.0000</b>	<b>27,103.69 85</b>	<b>27,103.69 85</b>	<b>2.1230</b>	<b>3.6984</b>	<b>28,258.90 81</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					
2023	1.4608	57.3311	33.4739	0.2527	14.9138	0.4585	15.3723	6.2066	0.4413	6.6479	0.0000	27,103.69 85	27,103.69 85	2.1230	3.6984	28,258.90 81
2024	1.3916	9.2936	26.5313	0.0711	3.2507	0.0871	3.3377	0.8803	0.0846	0.9650	0.0000	7,212.249 9	7,212.249 9	0.7351	0.4527	7,365.537 6
2025	173.2605	9.1049	26.0369	0.0699	3.2506	0.0858	3.3364	0.8803	0.0835	0.9638	0.0000	7,111.248 4	7,111.248 4	0.7244	0.4416	7,260.942 9
<b>Maximum</b>	<b>173.2605</b>	<b>57.3311</b>	<b>33.4739</b>	<b>0.2527</b>	<b>14.9138</b>	<b>0.4585</b>	<b>15.3723</b>	<b>6.2066</b>	<b>0.4413</b>	<b>6.6479</b>	<b>0.0000</b>	<b>27,103.69 85</b>	<b>27,103.69 85</b>	<b>2.1230</b>	<b>3.6984</b>	<b>28,258.90 81</b>



Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	11.0998	2.8900e-003	0.3192	2.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003		0.6859	0.6859	1.7800e-003		0.7305
Energy	0.6034	5.4855	4.6078	0.0329		0.4169	0.4169		0.4169	0.4169		6,582.5882	6,582.5882	0.1262	0.1207	6,621.7053
Mobile	11.7792	15.4611	113.7247	0.2110	24.3337	0.1697	24.5034	6.4861	0.1585	6.6446		21,544.3733	21,544.3733	1.7364	1.1950	21,943.8938
<b>Total</b>	<b>23.4824</b>	<b>20.9495</b>	<b>118.6517</b>	<b>0.2440</b>	<b>24.3337</b>	<b>0.5878</b>	<b>24.9214</b>	<b>6.4861</b>	<b>0.5765</b>	<b>7.0626</b>		<b>28,127.6474</b>	<b>28,127.6474</b>	<b>1.8643</b>	<b>1.3157</b>	<b>28,566.3295</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	11.0998	2.8900e-003	0.3192	2.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003		0.6859	0.6859	1.7800e-003		0.7305
Energy	0.6034	5.4855	4.6078	0.0329		0.4169	0.4169		0.4169	0.4169		6,582.5882	6,582.5882	0.1262	0.1207	6,621.7053
Mobile	11.7792	15.4611	113.7247	0.2110	24.3337	0.1697	24.5034	6.4861	0.1585	6.6446		21,544.3733	21,544.3733	1.7364	1.1950	21,943.8938
<b>Total</b>	<b>23.4824</b>	<b>20.9495</b>	<b>118.6517</b>	<b>0.2440</b>	<b>24.3337</b>	<b>0.5878</b>	<b>24.9214</b>	<b>6.4861</b>	<b>0.5765</b>	<b>7.0626</b>		<b>28,127.6474</b>	<b>28,127.6474</b>	<b>1.8643</b>	<b>1.3157</b>	<b>28,566.3295</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/21/2023	5	15	
2	Grading	Grading	6/22/2023	9/1/2023	5	52	
3	Building Construction	Building Construction	9/4/2023	5/23/2025	5	450	
4	Paving	Paving	5/26/2025	6/27/2025	5	25	
5	Architectural Coating	Architectural Coating	6/30/2025	8/1/2025	5	25	

**Acres of Grading (Site Preparation Phase): 22.5**

**Acres of Grading (Grading Phase): 156**

**Acres of Paving: 8.05**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 684,000; Non-Residential Outdoor: 228,000; Striped Parking Area: 21,456 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	5,102.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	322.00	133.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	64.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area



Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

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

**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	0.8794	55.2779	10.9881	0.2135	5.9312	0.3957	6.3270	1.6242	0.3786	2.0028		23,302.43 63	23,302.43 63	0.9264	3.6948	24,426.65 57
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
<b>Total</b>	<b>0.9331</b>	<b>55.3136</b>	<b>11.4153</b>	<b>0.2146</b>	<b>6.0682</b>	<b>0.3964</b>	<b>6.4646</b>	<b>1.6605</b>	<b>0.3793</b>	<b>2.0397</b>		<b>23,416.39 04</b>	<b>23,416.39 04</b>	<b>0.9305</b>	<b>3.6984</b>	<b>24,541.78 62</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**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	0.8794	55.2779	10.9881	0.2135	5.9312	0.3957	6.3270	1.6242	0.3786	2.0028		23,302.43 63	23,302.43 63	0.9264	3.6948	24,426.65 57
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
<b>Total</b>	<b>0.9331</b>	<b>55.3136</b>	<b>11.4153</b>	<b>0.2146</b>	<b>6.0682</b>	<b>0.3964</b>	<b>6.4646</b>	<b>1.6605</b>	<b>0.3793</b>	<b>2.0397</b>		<b>23,416.39 04</b>	<b>23,416.39 04</b>	<b>0.9305</b>	<b>3.6984</b>	<b>24,541.78 62</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
<b>Total</b>	<b>0.0597</b>	<b>0.0397</b>	<b>0.4747</b>	<b>1.2400e-003</b>	<b>0.1521</b>	<b>7.8000e-004</b>	<b>0.1529</b>	<b>0.0404</b>	<b>7.2000e-004</b>	<b>0.0411</b>		<b>126.6156</b>	<b>126.6156</b>	<b>4.5000e-003</b>	<b>4.0100e-003</b>	<b>127.9228</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>4.1416</b>	<b>0.1015</b>	<b>4.2432</b>	<b>1.6442</b>	<b>0.1015</b>	<b>1.7457</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
<b>Total</b>	<b>0.0597</b>	<b>0.0397</b>	<b>0.4747</b>	<b>1.2400e-003</b>	<b>0.1521</b>	<b>7.8000e-004</b>	<b>0.1529</b>	<b>0.0404</b>	<b>7.2000e-004</b>	<b>0.0411</b>		<b>126.6156</b>	<b>126.6156</b>	<b>4.5000e-003</b>	<b>4.0100e-003</b>	<b>127.9228</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1720	6.6189	2.0045	0.0254	0.8013	0.0348	0.8361	0.2306	0.0333	0.2639		2,720.2583	2,720.2583	0.0669	0.3994	2,840.9575
Worker	0.9610	0.6397	7.6429	0.0199	2.4495	0.0126	2.4621	0.6497	0.0116	0.6614		2,038.5116	2,038.5116	0.0724	0.0646	2,059.5574
<b>Total</b>	<b>1.1330</b>	<b>7.2586</b>	<b>9.6474</b>	<b>0.0453</b>	<b>3.2507</b>	<b>0.0474</b>	<b>3.2982</b>	<b>0.8804</b>	<b>0.0449</b>	<b>0.9253</b>		<b>4,758.7699</b>	<b>4,758.7699</b>	<b>0.1393</b>	<b>0.4640</b>	<b>4,900.5148</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0269</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1720	6.6189	2.0045	0.0254	0.8013	0.0348	0.8361	0.2306	0.0333	0.2639		2,720.2583	2,720.2583	0.0669	0.3994	2,840.9575
Worker	0.9610	0.6397	7.6429	0.0199	2.4495	0.0126	2.4621	0.6497	0.0116	0.6614		2,038.5116	2,038.5116	0.0724	0.0646	2,059.5574
<b>Total</b>	<b>1.1330</b>	<b>7.2586</b>	<b>9.6474</b>	<b>0.0453</b>	<b>3.2507</b>	<b>0.0474</b>	<b>3.2982</b>	<b>0.8804</b>	<b>0.0449</b>	<b>0.9253</b>		<b>4,758.7699</b>	<b>4,758.7699</b>	<b>0.1393</b>	<b>0.4640</b>	<b>4,900.5148</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1643	6.4894	1.9426	0.0249	0.8012	0.0342	0.8354	0.2306	0.0328	0.2634		2,668.7898	2,668.7898	0.0650	0.3927	2,787.4415
Worker	0.8994	0.5695	7.1285	0.0193	2.4495	0.0120	2.4615	0.6497	0.0111	0.6608		1,987.7612	1,987.7612	0.0658	0.0600	2,007.2884
<b>Total</b>	<b>1.0637</b>	<b>7.0589</b>	<b>9.0711</b>	<b>0.0441</b>	<b>3.2507</b>	<b>0.0463</b>	<b>3.2969</b>	<b>0.8803</b>	<b>0.0438</b>	<b>0.9242</b>		<b>4,656.5510</b>	<b>4,656.5510</b>	<b>0.1308</b>	<b>0.4527</b>	<b>4,794.7299</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1643	6.4894	1.9426	0.0249	0.8012	0.0342	0.8354	0.2306	0.0328	0.2634		2,668.7898	2,668.7898	0.0650	0.3927	2,787.4415
Worker	0.8994	0.5695	7.1285	0.0193	2.4495	0.0120	2.4615	0.6497	0.0111	0.6608		1,987.7612	1,987.7612	0.0658	0.0600	2,007.2884
<b>Total</b>	<b>1.0637</b>	<b>7.0589</b>	<b>9.0711</b>	<b>0.0441</b>	<b>3.2507</b>	<b>0.0463</b>	<b>3.2969</b>	<b>0.8803</b>	<b>0.0438</b>	<b>0.9242</b>		<b>4,656.5510</b>	<b>4,656.5510</b>	<b>0.1308</b>	<b>0.4527</b>	<b>4,794.7299</b>



Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1581	6.3592	1.8969	0.0244	0.8011	0.0335	0.8346	0.2306	0.0321	0.2626		2,614.968 2	2,614.968 2	0.0636	0.3855	2,731.428 4
Worker	0.8455	0.5110	6.6798	0.0186	2.4495	0.0115	2.4610	0.6497	0.0106	0.6603		1,939.805 8	1,939.805 8	0.0599	0.0561	1,958.016 5
<b>Total</b>	<b>1.0036</b>	<b>6.8702</b>	<b>8.5766</b>	<b>0.0430</b>	<b>3.2506</b>	<b>0.0450</b>	<b>3.2956</b>	<b>0.8803</b>	<b>0.0427</b>	<b>0.9230</b>		<b>4,554.774 0</b>	<b>4,554.774 0</b>	<b>0.1235</b>	<b>0.4416</b>	<b>4,689.444 8</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1581	6.3592	1.8969	0.0244	0.8011	0.0335	0.8346	0.2306	0.0321	0.2626		2,614.968 2	2,614.968 2	0.0636	0.3855	2,731.428 4
Worker	0.8455	0.5110	6.6798	0.0186	2.4495	0.0115	2.4610	0.6497	0.0106	0.6603		1,939.805 8	1,939.805 8	0.0599	0.0561	1,958.016 5
<b>Total</b>	<b>1.0036</b>	<b>6.8702</b>	<b>8.5766</b>	<b>0.0430</b>	<b>3.2506</b>	<b>0.0450</b>	<b>3.2956</b>	<b>0.8803</b>	<b>0.0427</b>	<b>0.9230</b>		<b>4,554.774 0</b>	<b>4,554.774 0</b>	<b>0.1235</b>	<b>0.4416</b>	<b>4,689.444 8</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.6236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5387</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120
<b>Total</b>	<b>0.0394</b>	<b>0.0238</b>	<b>0.3112</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>90.3636</b>	<b>90.3636</b>	<b>2.7900e-003</b>	<b>2.6100e-003</b>	<b>91.2120</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.6236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9040</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120
<b>Total</b>	<b>0.0394</b>	<b>0.0238</b>	<b>0.3112</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>90.3636</b>	<b>90.3636</b>	<b>2.7900e-003</b>	<b>2.6100e-003</b>	<b>91.2120</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	173.0627					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>173.2336</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1681	0.1016	1.3277	3.7000e-003	0.4869	2.2800e-003	0.4891	0.1291	2.1000e-003	0.1312		385.5515	385.5515	0.0119	0.0112	389.1710
<b>Total</b>	<b>0.1681</b>	<b>0.1016</b>	<b>1.3277</b>	<b>3.7000e-003</b>	<b>0.4869</b>	<b>2.2800e-003</b>	<b>0.4891</b>	<b>0.1291</b>	<b>2.1000e-003</b>	<b>0.1312</b>		<b>385.5515</b>	<b>385.5515</b>	<b>0.0119</b>	<b>0.0112</b>	<b>389.1710</b>

Innovation Park - CNU Phase 1B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 2025**

**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	173.0627					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>173.0925</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1681	0.1016	1.3277	3.7000e-003	0.4869	2.2800e-003	0.4891	0.1291	2.1000e-003	0.1312		385.5515	385.5515	0.0119	0.0112	389.1710
<b>Total</b>	<b>0.1681</b>	<b>0.1016</b>	<b>1.3277</b>	<b>3.7000e-003</b>	<b>0.4869</b>	<b>2.2800e-003</b>	<b>0.4891</b>	<b>0.1291</b>	<b>2.1000e-003</b>	<b>0.1312</b>		<b>385.5515</b>	<b>385.5515</b>	<b>0.0119</b>	<b>0.0112</b>	<b>389.1710</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - CNU - Phase 2A**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	325.00	1000sqft	7.46	325,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2029
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Ambulatory Care Building and Medical Building Construction ONLY

Land Use - Med bldg + care bldg

Construction Phase - schedule

Trips and VMT - 15 truck per day for site prep, demo, grade

Grading -

Area Coating -

Construction Off-road Equipment Mitigation - Tier 4 MM scenario + dust BMPs

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingValue	100	0

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	NumDays	20.00	16.00



Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	230.00	383.00
tblConstructionPhase	NumDays	20.00	34.00
tblConstructionPhase	NumDays	20.00	34.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	HaulingTripNumber	0.00	135.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00

**2.0 Emissions Summary**

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Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	3.2628	32.5700	34.0477	0.0810	20.0553	1.1838	21.1587	10.2103	1.1010	11.2261	0.0000	8,057.928 3	8,057.928 3	1.6108	0.3161	8,192.408 0
2028	1.6550	14.9936	18.6422	0.0416	1.1103	0.5431	1.6534	0.3017	0.5111	0.8128	0.0000	4,120.998 6	4,120.998 6	0.6396	0.1605	4,184.820 5
2029	88.8252	14.9485	18.5560	0.0412	1.1103	0.5427	1.6529	0.3017	0.5106	0.8123	0.0000	4,090.790 1	4,090.790 1	0.7157	0.1573	4,153.602 9
<b>Maximum</b>	<b>88.8252</b>	<b>32.5700</b>	<b>34.0477</b>	<b>0.0810</b>	<b>20.0553</b>	<b>1.1838</b>	<b>21.1587</b>	<b>10.2103</b>	<b>1.1010</b>	<b>11.2261</b>	<b>0.0000</b>	<b>8,057.928 3</b>	<b>8,057.928 3</b>	<b>1.6108</b>	<b>0.3161</b>	<b>8,192.408 0</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					
2027	1.0637	8.5939	38.6358	0.0810	9.2439	0.1219	9.3227	4.6540	0.1203	4.7320	0.0000	8,057.928 3	8,057.928 3	1.6108	0.3161	8,192.408 0
2028	0.6154	4.7586	20.0177	0.0416	1.1103	0.0564	1.1667	0.3017	0.0556	0.3573	0.0000	4,120.998 6	4,120.998 6	0.6396	0.1605	4,184.820 5
2029	88.6841	4.7135	19.9316	0.0412	1.1103	0.0559	1.1662	0.3017	0.0552	0.3568	0.0000	4,090.790 1	4,090.790 1	0.7157	0.1573	4,153.602 9
<b>Maximum</b>	<b>88.6841</b>	<b>8.5939</b>	<b>38.6358</b>	<b>0.0810</b>	<b>9.2439</b>	<b>0.1219</b>	<b>9.3227</b>	<b>4.6540</b>	<b>0.1203</b>	<b>4.7320</b>	<b>0.0000</b>	<b>8,057.928 3</b>	<b>8,057.928 3</b>	<b>1.6108</b>	<b>0.3161</b>	<b>8,192.408 0</b>



Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.7835	3.0000e-004	0.0331	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0711	0.0711	1.9000e-004		0.0758
Energy	0.6428	5.8435	4.9086	0.0351		0.4441	0.4441		0.4441	0.4441		7,012.2482	7,012.2482	0.1344	0.1286	7,053.9185
Mobile	7.1316	9.4845	73.3190	0.1427	18.0683	0.1059	18.1742	4.8148	0.0989	4.9136		15,296.3366	15,296.3366	1.0955	0.7748	15,554.6003
<b>Total</b>	<b>15.5578</b>	<b>15.3284</b>	<b>78.2607</b>	<b>0.1778</b>	<b>18.0683</b>	<b>0.5501</b>	<b>18.6184</b>	<b>4.8148</b>	<b>0.5431</b>	<b>5.3578</b>		<b>22,308.6560</b>	<b>22,308.6560</b>	<b>1.2301</b>	<b>0.9033</b>	<b>22,608.5946</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	7.7835	3.0000e-004	0.0331	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0711	0.0711	1.9000e-004		0.0758
Energy	0.6428	5.8435	4.9086	0.0351		0.4441	0.4441		0.4441	0.4441		7,012.2482	7,012.2482	0.1344	0.1286	7,053.9185
Mobile	7.1316	9.4845	73.3190	0.1427	18.0683	0.1059	18.1742	4.8148	0.0989	4.9136		15,296.3366	15,296.3366	1.0955	0.7748	15,554.6003
<b>Total</b>	<b>15.5578</b>	<b>15.3284</b>	<b>78.2607</b>	<b>0.1778</b>	<b>18.0683</b>	<b>0.5501</b>	<b>18.6184</b>	<b>4.8148</b>	<b>0.5431</b>	<b>5.3578</b>		<b>22,308.6560</b>	<b>22,308.6560</b>	<b>1.2301</b>	<b>0.9033</b>	<b>22,608.5946</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/15/2027	11/5/2027	5	16	
2	Site Preparation	Site Preparation	11/8/2027	11/18/2027	5	9	
3	Grading	Grading	11/19/2027	12/10/2027	5	16	
4	Building Construction	Building Construction	12/10/2027	5/29/2029	5	383	
5	Paving	Paving	5/30/2029	7/16/2029	5	34	
6	Architectural Coating	Architectural Coating	7/17/2029	8/31/2029	5	34	

**Acres of Grading (Site Preparation Phase): 13.5**

**Acres of Grading (Grading Phase): 16**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 487,500; Non-Residential Outdoor: 162,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	135.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	104.00	53.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0197	0.2782	8.1000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		86.2451	86.2451	2.3400e-003	2.3300e-003	86.9991
<b>Total</b>	<b>0.0703</b>	<b>2.2122</b>	<b>0.7665</b>	<b>9.4500e-003</b>	<b>0.3754</b>	<b>0.0166</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1177</b>		<b>1,030.4683</b>	<b>1,030.4683</b>	<b>0.0400</b>	<b>0.1521</b>	<b>1,076.7941</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0197	0.2782	8.1000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		86.2451	86.2451	2.3400e-003	2.3300e-003	86.9991
<b>Total</b>	<b>0.0703</b>	<b>2.2122</b>	<b>0.7665</b>	<b>9.4500e-003</b>	<b>0.3754</b>	<b>0.0166</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1177</b>		<b>1,030.4683</b>	<b>1,030.4683</b>	<b>0.0400</b>	<b>0.1521</b>	<b>1,076.7941</b>



Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0422	0.0237	0.3338	9.8000e-004	0.1369	5.8000e-004	0.1375	0.0363	5.3000e-004	0.0369		103.4941	103.4941	2.8100e-003	2.8000e-003	104.3990
<b>Total</b>	<b>0.0773</b>	<b>2.2161</b>	<b>0.8221</b>	<b>9.6200e-003</b>	<b>0.3983</b>	<b>0.0167</b>	<b>0.4149</b>	<b>0.1079</b>	<b>0.0159</b>	<b>0.1238</b>		<b>1,047.7173</b>	<b>1,047.7173</b>	<b>0.0405</b>	<b>0.1526</b>	<b>1,094.1939</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2027**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0422	0.0237	0.3338	9.8000e-004	0.1369	5.8000e-004	0.1375	0.0363	5.3000e-004	0.0369		103.4941	103.4941	2.8100e-003	2.8000e-003	104.3990
<b>Total</b>	<b>0.0773</b>	<b>2.2161</b>	<b>0.8221</b>	<b>9.6200e-003</b>	<b>0.3983</b>	<b>0.0167</b>	<b>0.4149</b>	<b>0.1079</b>	<b>0.0159</b>	<b>0.1238</b>		<b>1,047.7173</b>	<b>1,047.7173</b>	<b>0.0405</b>	<b>0.1526</b>	<b>1,094.1939</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>1.5227</b>	<b>15.3148</b>	<b>14.5402</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.6236</b>	<b>7.7062</b>	<b>3.4247</b>	<b>0.5737</b>	<b>3.9984</b>		<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0197	0.2782	8.1000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		86.2451	86.2451	2.3400e-003	2.3300e-003	86.9991
<b>Total</b>	<b>0.0703</b>	<b>2.2122</b>	<b>0.7665</b>	<b>9.4500e-003</b>	<b>0.3754</b>	<b>0.0166</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1177</b>		<b>1,030.468 3</b>	<b>1,030.468 3</b>	<b>0.0400</b>	<b>0.1521</b>	<b>1,076.794 1</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2027**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0197	0.2782	8.1000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		86.2451	86.2451	2.3400e-003	2.3300e-003	86.9991
<b>Total</b>	<b>0.0703</b>	<b>2.2122</b>	<b>0.7665</b>	<b>9.4500e-003</b>	<b>0.3754</b>	<b>0.0166</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1177</b>		<b>1,030.468 3</b>	<b>1,030.468 3</b>	<b>0.0400</b>	<b>0.1521</b>	<b>1,076.794 1</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0586	2.4367	0.7276	9.3000e-003	0.3192	0.0127	0.3319	0.0919	0.0122	0.1040		999.3148	999.3148	0.0242	0.1479	1,043.981 3
Worker	0.2438	0.1367	1.9288	5.6500e-003	0.7911	3.3500e-003	0.7945	0.2099	3.0800e-003	0.2129		597.9657	597.9657	0.0162	0.0162	603.1940
<b>Total</b>	<b>0.3024</b>	<b>2.5733</b>	<b>2.6564</b>	<b>0.0150</b>	<b>1.1103</b>	<b>0.0161</b>	<b>1.1264</b>	<b>0.3017</b>	<b>0.0152</b>	<b>0.3170</b>		<b>1,597.280 5</b>	<b>1,597.280 5</b>	<b>0.0404</b>	<b>0.1640</b>	<b>1,647.175 3</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0586	2.4367	0.7276	9.3000e-003	0.3192	0.0127	0.3319	0.0919	0.0122	0.1040		999.3148	999.3148	0.0242	0.1479	1,043.981 3
Worker	0.2438	0.1367	1.9288	5.6500e-003	0.7911	3.3500e-003	0.7945	0.2099	3.0800e-003	0.2129		597.9657	597.9657	0.0162	0.0162	603.1940
<b>Total</b>	<b>0.3024</b>	<b>2.5733</b>	<b>2.6564</b>	<b>0.0150</b>	<b>1.1103</b>	<b>0.0161</b>	<b>1.1264</b>	<b>0.3017</b>	<b>0.0152</b>	<b>0.3170</b>		<b>1,597.280 5</b>	<b>1,597.280 5</b>	<b>0.0404</b>	<b>0.1640</b>	<b>1,647.175 3</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0568	2.3979	0.7170	9.1100e-003	0.3192	0.0124	0.3316	0.0919	0.0119	0.1038		978.8441	978.8441	0.0237	0.1451	1,022.663 0
Worker	0.2309	0.1260	1.8405	5.4900e-003	0.7911	3.1400e-003	0.7943	0.2099	2.8900e-003	0.2128		585.6802	585.6802	0.0150	0.0155	590.6594
<b>Total</b>	<b>0.2876</b>	<b>2.5239</b>	<b>2.5575</b>	<b>0.0146</b>	<b>1.1103</b>	<b>0.0156</b>	<b>1.1259</b>	<b>0.3017</b>	<b>0.0148</b>	<b>0.3165</b>		<b>1,564.524 3</b>	<b>1,564.524 3</b>	<b>0.0386</b>	<b>0.1605</b>	<b>1,613.322 4</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0568	2.3979	0.7170	9.1100e-003	0.3192	0.0124	0.3316	0.0919	0.0119	0.1038		978.8441	978.8441	0.0237	0.1451	1,022.663 0
Worker	0.2309	0.1260	1.8405	5.4900e-003	0.7911	3.1400e-003	0.7943	0.2099	2.8900e-003	0.2128		585.6802	585.6802	0.0150	0.0155	590.6594
<b>Total</b>	<b>0.2876</b>	<b>2.5239</b>	<b>2.5575</b>	<b>0.0146</b>	<b>1.1103</b>	<b>0.0156</b>	<b>1.1259</b>	<b>0.3017</b>	<b>0.0148</b>	<b>0.3165</b>		<b>1,564.524 3</b>	<b>1,564.524 3</b>	<b>0.0386</b>	<b>0.1605</b>	<b>1,613.322 4</b>



Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0551	2.3619	0.7077	8.9300e-003	0.3191	0.0122	0.3313	0.0918	0.0117	0.1035		959.6847	959.6847	0.0232	0.1424	1,002.705 4
Worker	0.2182	0.1170	1.7636	5.3500e-003	0.7911	2.9400e-003	0.7941	0.2099	2.7100e-003	0.2126		574.6311	574.6311	0.0139	0.0148	579.3994
<b>Total</b>	<b>0.2733</b>	<b>2.4788</b>	<b>2.4714</b>	<b>0.0143</b>	<b>1.1103</b>	<b>0.0151</b>	<b>1.1254</b>	<b>0.3017</b>	<b>0.0144</b>	<b>0.3161</b>		<b>1,534.315 7</b>	<b>1,534.315 7</b>	<b>0.0371</b>	<b>0.1573</b>	<b>1,582.104 8</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0551	2.3619	0.7077	8.9300e-003	0.3191	0.0122	0.3313	0.0918	0.0117	0.1035		959.6847	959.6847	0.0232	0.1424	1,002.705 4
Worker	0.2182	0.1170	1.7636	5.3500e-003	0.7911	2.9400e-003	0.7941	0.2099	2.7100e-003	0.2126		574.6311	574.6311	0.0139	0.0148	579.3994
<b>Total</b>	<b>0.2733</b>	<b>2.4788</b>	<b>2.4714</b>	<b>0.0143</b>	<b>1.1103</b>	<b>0.0151</b>	<b>1.1254</b>	<b>0.3017</b>	<b>0.0144</b>	<b>0.3161</b>		<b>1,534.315 7</b>	<b>1,534.315 7</b>	<b>0.0371</b>	<b>0.1573</b>	<b>1,582.104 8</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0315</b>	<b>0.0169</b>	<b>0.2544</b>	<b>7.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>82.8795</b>	<b>82.8795</b>	<b>2.0000e-003</b>	<b>2.1400e-003</b>	<b>83.5672</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0315</b>	<b>0.0169</b>	<b>0.2544</b>	<b>7.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>82.8795</b>	<b>82.8795</b>	<b>2.0000e-003</b>	<b>2.1400e-003</b>	<b>83.5672</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	88.6103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>88.7812</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0441	0.0236	0.3561	1.0800e-003	0.1598	5.9000e-004	0.1603	0.0424	5.5000e-004	0.0429		116.0313	116.0313	2.8000e-003	3.0000e-003	116.9941
<b>Total</b>	<b>0.0441</b>	<b>0.0236</b>	<b>0.3561</b>	<b>1.0800e-003</b>	<b>0.1598</b>	<b>5.9000e-004</b>	<b>0.1603</b>	<b>0.0424</b>	<b>5.5000e-004</b>	<b>0.0429</b>		<b>116.0313</b>	<b>116.0313</b>	<b>2.8000e-003</b>	<b>3.0000e-003</b>	<b>116.9941</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	88.6103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>88.6400</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0441	0.0236	0.3561	1.0800e-003	0.1598	5.9000e-004	0.1603	0.0424	5.5000e-004	0.0429		116.0313	116.0313	2.8000e-003	3.0000e-003	116.9941
<b>Total</b>	<b>0.0441</b>	<b>0.0236</b>	<b>0.3561</b>	<b>1.0800e-003</b>	<b>0.1598</b>	<b>5.9000e-004</b>	<b>0.1603</b>	<b>0.0424</b>	<b>5.5000e-004</b>	<b>0.0429</b>		<b>116.0313</b>	<b>116.0313</b>	<b>2.8000e-003</b>	<b>3.0000e-003</b>	<b>116.9941</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU - Phase 2B**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	430.00	Space	3.87	181,000.00	0
Strip Mall	26.00	1000sqft	0.60	26,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2029
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Retail/Parking Building 1  
 Land Use - Parking/retail  
 Construction Phase - Construction schedule adjusted  
 Trips and VMT - 20 trucks/day for grade/demo/site prep  
 Grading -  
 Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	5.00	8.00
tblConstructionPhase	NumDays	8.00	13.00
tblConstructionPhase	NumDays	230.00	286.00



Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	18.00	22.00
tblLandUse	LandUseSquareFeet	172,000.00	181,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	600.00
tblTripsAndVMT	HaulingTripNumber	0.00	160.00
tblTripsAndVMT	HaulingTripNumber	0.00	260.00

**2.0 Emissions Summary**

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Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	3.1920	32.3011	33.4887	0.0790	20.1423	1.1831	21.2507	10.2341	1.1004	11.2546	0.0000	7,846.8980	7,846.8980	1.6092	0.3031	7,977.4418
2029	13.4500	14.0793	17.9631	0.0370	0.8437	0.5378	1.3815	0.2284	0.5059	0.7343	0.0000	3,636.2462	3,636.2462	0.6271	0.1034	3,682.7195
<b>Maximum</b>	<b>13.4500</b>	<b>32.3011</b>	<b>33.4887</b>	<b>0.0790</b>	<b>20.1423</b>	<b>1.1831</b>	<b>21.2507</b>	<b>10.2341</b>	<b>1.1004</b>	<b>11.2546</b>	<b>0.0000</b>	<b>7,846.8980</b>	<b>7,846.8980</b>	<b>1.6092</b>	<b>0.3031</b>	<b>7,977.4418</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					
2028	0.9929	8.3250	38.0768	0.0790	9.3310	0.1212	9.4146	4.6778	0.1197	4.7605	0.0000	7,846.8980	7,846.8980	1.6092	0.3031	7,977.4418
2029	13.3088	3.8443	19.3387	0.0370	0.8437	0.0510	0.8947	0.2284	0.0505	0.2789	0.0000	3,636.2462	3,636.2462	0.6271	0.1034	3,682.7195
<b>Maximum</b>	<b>13.3088</b>	<b>8.3250</b>	<b>38.0768</b>	<b>0.0790</b>	<b>9.3310</b>	<b>0.1212</b>	<b>9.4146</b>	<b>4.6778</b>	<b>0.1197</b>	<b>4.7605</b>	<b>0.0000</b>	<b>7,846.8980</b>	<b>7,846.8980</b>	<b>1.6092</b>	<b>0.3031</b>	<b>7,977.4418</b>

## Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	14.06	73.76	-11.59	0.00	51.52	90.00	54.45	53.11	89.41	57.97	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7046	4.2000e-004	0.0464	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0998	0.0998	2.6000e-004		0.1063
Energy	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0024	45.0024	8.6000e-004	8.3000e-004	45.2698
Mobile	1.7856	1.9650	15.5543	0.0244	2.9856	0.0194	3.0050	0.7956	0.0181	0.8137		2,609.7249	2,609.7249	0.2455	0.1596	2,663.4337
<b>Total</b>	<b>2.4943</b>	<b>2.0029</b>	<b>15.6323</b>	<b>0.0246</b>	<b>2.9856</b>	<b>0.0225</b>	<b>3.0080</b>	<b>0.7956</b>	<b>0.0212</b>	<b>0.8167</b>		<b>2,654.8271</b>	<b>2,654.8271</b>	<b>0.2466</b>	<b>0.1605</b>	<b>2,708.8098</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	0.7046	4.2000e-004	0.0464	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0998	0.0998	2.6000e-004		0.1063
Energy	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0024	45.0024	8.6000e-004	8.3000e-004	45.2698
Mobile	1.7856	1.9650	15.5543	0.0244	2.9856	0.0194	3.0050	0.7956	0.0181	0.8137		2,609.7249	2,609.7249	0.2455	0.1596	2,663.4337
<b>Total</b>	<b>2.4943</b>	<b>2.0029</b>	<b>15.6323</b>	<b>0.0246</b>	<b>2.9856</b>	<b>0.0225</b>	<b>3.0080</b>	<b>0.7956</b>	<b>0.0212</b>	<b>0.8167</b>		<b>2,654.8271</b>	<b>2,654.8271</b>	<b>0.2466</b>	<b>0.1605</b>	<b>2,708.8098</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/17/2028	4/27/2028	5	30	
2	Site Preparation	Site Preparation	4/28/2028	5/9/2028	5	8	
3	Grading	Grading	5/10/2028	5/26/2028	5	13	
4	Building Construction	Building Construction	5/26/2028	6/29/2029	5	286	
5	Paving	Paving	7/2/2029	7/31/2029	5	22	
6	Architectural Coating	Architectural Coating	8/1/2029	8/31/2029	5	22	

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 13**

**Acres of Paving: 3.87**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 39,000; Non-Residential Outdoor: 13,000; Striped Parking Area: 10,860 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Grading	Excavators	1	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	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	600.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	160.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	260.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	84.00	34.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Water Exposed Area

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0458	2.8584	0.6519	0.0113	0.3484	0.0210	0.3694	0.0954	0.0201	0.1155		1,231.2583	1,231.2583	0.0494	0.1953	1,290.6929
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0182	0.2655	7.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		84.4731	84.4731	2.1600e-003	2.2300e-003	85.1913
<b>Total</b>	<b>0.0791</b>	<b>2.8766</b>	<b>0.9174</b>	<b>0.0121</b>	<b>0.4625</b>	<b>0.0214</b>	<b>0.4839</b>	<b>0.1256</b>	<b>0.0205</b>	<b>0.1461</b>		<b>1,315.7314</b>	<b>1,315.7314</b>	<b>0.0516</b>	<b>0.1975</b>	<b>1,375.8841</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0458	2.8584	0.6519	0.0113	0.3484	0.0210	0.3694	0.0954	0.0201	0.1155		1,231.2583	1,231.2583	0.0494	0.1953	1,290.6929
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0182	0.2655	7.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		84.4731	84.4731	2.1600e-003	2.2300e-003	85.1913
<b>Total</b>	<b>0.0791</b>	<b>2.8766</b>	<b>0.9174</b>	<b>0.0121</b>	<b>0.4625</b>	<b>0.0214</b>	<b>0.4839</b>	<b>0.1256</b>	<b>0.0205</b>	<b>0.1461</b>		<b>1,315.7314</b>	<b>1,315.7314</b>	<b>0.0516</b>	<b>0.1975</b>	<b>1,375.8841</b>



Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0458	2.8584	0.6519	0.0113	0.3484	0.0210	0.3694	0.0954	0.0201	0.1155		1,231.2583	1,231.2583	0.0494	0.1953	1,290.6929
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0400	0.0218	0.3186	9.5000e-004	0.1369	5.4000e-004	0.1375	0.0363	5.0000e-004	0.0368		101.3677	101.3677	2.5900e-003	2.6700e-003	102.2295
<b>Total</b>	<b>0.0857</b>	<b>2.8802</b>	<b>0.9704</b>	<b>0.0122</b>	<b>0.4853</b>	<b>0.0215</b>	<b>0.5069</b>	<b>0.1317</b>	<b>0.0206</b>	<b>0.1523</b>		<b>1,332.6260</b>	<b>1,332.6260</b>	<b>0.0520</b>	<b>0.1980</b>	<b>1,392.9224</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2028**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0458	2.8584	0.6519	0.0113	0.3484	0.0210	0.3694	0.0954	0.0201	0.1155		1,231.2583	1,231.2583	0.0494	0.1953	1,290.6929
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0400	0.0218	0.3186	9.5000e-004	0.1369	5.4000e-004	0.1375	0.0363	5.0000e-004	0.0368		101.3677	101.3677	2.5900e-003	2.6700e-003	102.2295
<b>Total</b>	<b>0.0857</b>	<b>2.8802</b>	<b>0.9704</b>	<b>0.0122</b>	<b>0.4853</b>	<b>0.0215</b>	<b>0.5069</b>	<b>0.1317</b>	<b>0.0206</b>	<b>0.1523</b>		<b>1,332.6260</b>	<b>1,332.6260</b>	<b>0.0520</b>	<b>0.1980</b>	<b>1,392.9224</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>1.5227</b>	<b>15.3148</b>	<b>14.5402</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.6236</b>	<b>7.7062</b>	<b>3.4247</b>	<b>0.5737</b>	<b>3.9984</b>		<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0458	2.8584	0.6519	0.0113	0.3484	0.0210	0.3694	0.0954	0.0201	0.1155		1,231.258 3	1,231.258 3	0.0494	0.1953	1,290.692 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0182	0.2655	7.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		84.4731	84.4731	2.1600e-003	2.2300e-003	85.1913
<b>Total</b>	<b>0.0791</b>	<b>2.8766</b>	<b>0.9174</b>	<b>0.0121</b>	<b>0.4625</b>	<b>0.0214</b>	<b>0.4839</b>	<b>0.1256</b>	<b>0.0205</b>	<b>0.1461</b>		<b>1,315.731 4</b>	<b>1,315.731 4</b>	<b>0.0516</b>	<b>0.1975</b>	<b>1,375.884 1</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2028**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0458	2.8584	0.6519	0.0113	0.3484	0.0210	0.3694	0.0954	0.0201	0.1155		1,231.258 3	1,231.258 3	0.0494	0.1953	1,290.692 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0182	0.2655	7.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		84.4731	84.4731	2.1600e-003	2.2300e-003	85.1913
<b>Total</b>	<b>0.0791</b>	<b>2.8766</b>	<b>0.9174</b>	<b>0.0121</b>	<b>0.4625</b>	<b>0.0214</b>	<b>0.4839</b>	<b>0.1256</b>	<b>0.0205</b>	<b>0.1461</b>		<b>1,315.731 4</b>	<b>1,315.731 4</b>	<b>0.0516</b>	<b>0.1975</b>	<b>1,375.884 1</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0364	1.5383	0.4600	5.8500e-003	0.2047	7.9800e-003	0.2127	0.0589	7.6400e-003	0.0666		627.9377	627.9377	0.0152	0.0931	656.0480
Worker	0.1865	0.1018	1.4866	4.4400e-003	0.6390	2.5400e-003	0.6415	0.1695	2.3400e-003	0.1718		473.0494	473.0494	0.0121	0.0125	477.0711
<b>Total</b>	<b>0.2229</b>	<b>1.6400</b>	<b>1.9465</b>	<b>0.0103</b>	<b>0.8437</b>	<b>0.0105</b>	<b>0.8543</b>	<b>0.2284</b>	<b>9.9800e-003</b>	<b>0.2384</b>		<b>1,100.987 1</b>	<b>1,100.987 1</b>	<b>0.0273</b>	<b>0.1055</b>	<b>1,133.119 0</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0364	1.5383	0.4600	5.8500e-003	0.2047	7.9800e-003	0.2127	0.0589	7.6400e-003	0.0666		627.9377	627.9377	0.0152	0.0931	656.0480
Worker	0.1865	0.1018	1.4866	4.4400e-003	0.6390	2.5400e-003	0.6415	0.1695	2.3400e-003	0.1718		473.0494	473.0494	0.0121	0.0125	477.0711
<b>Total</b>	<b>0.2229</b>	<b>1.6400</b>	<b>1.9465</b>	<b>0.0103</b>	<b>0.8437</b>	<b>0.0105</b>	<b>0.8543</b>	<b>0.2284</b>	<b>9.9800e-003</b>	<b>0.2384</b>		<b>1,100.987 1</b>	<b>1,100.987 1</b>	<b>0.0273</b>	<b>0.1055</b>	<b>1,133.119 0</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0353	1.5152	0.4540	5.7300e-003	0.2047	7.8200e-003	0.2125	0.0589	7.4800e-003	0.0664		615.6468	615.6468	0.0149	0.0914	643.2450
Worker	0.1762	0.0945	1.4245	4.3200e-003	0.6390	2.3800e-003	0.6414	0.1695	2.1900e-003	0.1717		464.1251	464.1251	0.0112	0.0120	467.9764
<b>Total</b>	<b>0.2116</b>	<b>1.6096</b>	<b>1.8785</b>	<b>0.0101</b>	<b>0.8437</b>	<b>0.0102</b>	<b>0.8539</b>	<b>0.2284</b>	<b>9.6700e-003</b>	<b>0.2381</b>		<b>1,079.771 9</b>	<b>1,079.771 9</b>	<b>0.0261</b>	<b>0.1034</b>	<b>1,111.221 4</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0353	1.5152	0.4540	5.7300e-003	0.2047	7.8200e-003	0.2125	0.0589	7.4800e-003	0.0664		615.6468	615.6468	0.0149	0.0914	643.2450
Worker	0.1762	0.0945	1.4245	4.3200e-003	0.6390	2.3800e-003	0.6414	0.1695	2.1900e-003	0.1717		464.1251	464.1251	0.0112	0.0120	467.9764
<b>Total</b>	<b>0.2116</b>	<b>1.6096</b>	<b>1.8785</b>	<b>0.0101</b>	<b>0.8437</b>	<b>0.0102</b>	<b>0.8539</b>	<b>0.2284</b>	<b>9.6700e-003</b>	<b>0.2381</b>		<b>1,079.771 9</b>	<b>1,079.771 9</b>	<b>0.0261</b>	<b>0.1034</b>	<b>1,111.221 4</b>



Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8197</b>	<b>7.5321</b>	<b>12.1778</b>	<b>0.0189</b>		<b>0.3524</b>	<b>0.3524</b>		<b>0.3259</b>	<b>0.3259</b>		<b>1,805.3926</b>	<b>1,805.3926</b>	<b>0.5673</b>		<b>1,819.5741</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0420	0.0225	0.3392	1.0300e-003	0.1521	5.7000e-004	0.1527	0.0404	5.2000e-004	0.0409		110.5060	110.5060	2.6600e-003	2.8500e-003	111.4230
<b>Total</b>	<b>0.0420</b>	<b>0.0225</b>	<b>0.3392</b>	<b>1.0300e-003</b>	<b>0.1521</b>	<b>5.7000e-004</b>	<b>0.1527</b>	<b>0.0404</b>	<b>5.2000e-004</b>	<b>0.0409</b>		<b>110.5060</b>	<b>110.5060</b>	<b>2.6600e-003</b>	<b>2.8500e-003</b>	<b>111.4230</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2194</b>	<b>0.9509</b>	<b>13.5323</b>	<b>0.0189</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0293</b>	<b>0.0293</b>	<b>0.0000</b>	<b>1,805.3926</b>	<b>1,805.3926</b>	<b>0.5673</b>		<b>1,819.5741</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0420	0.0225	0.3392	1.0300e-003	0.1521	5.7000e-004	0.1527	0.0404	5.2000e-004	0.0409		110.5060	110.5060	2.6600e-003	2.8500e-003	111.4230
<b>Total</b>	<b>0.0420</b>	<b>0.0225</b>	<b>0.3392</b>	<b>1.0300e-003</b>	<b>0.1521</b>	<b>5.7000e-004</b>	<b>0.1527</b>	<b>0.0404</b>	<b>5.2000e-004</b>	<b>0.0409</b>		<b>110.5060</b>	<b>110.5060</b>	<b>2.6600e-003</b>	<b>2.8500e-003</b>	<b>111.4230</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	13.2435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>13.4143</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0357	0.0191	0.2883	8.7000e-004	0.1293	4.8000e-004	0.1298	0.0343	4.4000e-004	0.0348		93.9301	93.9301	2.2700e-003	2.4300e-003	94.7095
<b>Total</b>	<b>0.0357</b>	<b>0.0191</b>	<b>0.2883</b>	<b>8.7000e-004</b>	<b>0.1293</b>	<b>4.8000e-004</b>	<b>0.1298</b>	<b>0.0343</b>	<b>4.4000e-004</b>	<b>0.0348</b>		<b>93.9301</b>	<b>93.9301</b>	<b>2.2700e-003</b>	<b>2.4300e-003</b>	<b>94.7095</b>

Innovation Park CNU - Phase 2B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	13.2435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>13.2732</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0357	0.0191	0.2883	8.7000e-004	0.1293	4.8000e-004	0.1298	0.0343	4.4000e-004	0.0348		93.9301	93.9301	2.2700e-003	2.4300e-003	94.7095
<b>Total</b>	<b>0.0357</b>	<b>0.0191</b>	<b>0.2883</b>	<b>8.7000e-004</b>	<b>0.1293</b>	<b>4.8000e-004</b>	<b>0.1298</b>	<b>0.0343</b>	<b>4.4000e-004</b>	<b>0.0348</b>		<b>93.9301</b>	<b>93.9301</b>	<b>2.2700e-003</b>	<b>2.4300e-003</b>	<b>94.7095</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2C**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	38.00	1000sqft	0.87	38,000.00	0
Enclosed Parking Structure	127.00	Space	1.14	38,000.00	0
Apartments Mid Rise	250.00	Dwelling Unit	6.58	154,000.00	668

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2025
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Admin/ Dormitory Building 1 and Faculty Building 1 construction only

Land Use - Dorm 1 and Faculty bldg 1

Construction Phase - adjusted schedule13

Trips and VMT - 15 trucks per day for site prep, demo, grade

Grading -

Area Coating -

Construction Off-road Equipment Mitigation - Tier 4 MM + Dust BMPs

Area Mitigation -

Fleet Mix -

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	10.00	8.00

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	230.00	154.00
tblConstructionPhase	NumDays	20.00	14.00
tblConstructionPhase	NumDays	20.00	14.00
tblLandUse	LandUseSquareFeet	50,800.00	38,000.00
tblLandUse	LandUseSquareFeet	250,000.00	154,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	HaulingTripNumber	0.00	120.00
tblTripsAndVMT	HaulingTripNumber	0.00	255.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.8422	35.1487	36.9188	0.0865	20.0555	1.3733	21.3027	10.2104	1.2771	11.3585	0.0000	8,595.865 1	8,595.865 1	1.6381	0.3165	8,731.147 7
2025	163.8569	14.6645	20.9558	0.0461	1.8172	0.5448	2.3620	0.4873	0.5125	0.9998	0.0000	4,576.311 8	4,576.311 8	0.7165	0.1493	4,637.248 9
<b>Maximum</b>	<b>163.8569</b>	<b>35.1487</b>	<b>36.9188</b>	<b>0.0865</b>	<b>20.0555</b>	<b>1.3733</b>	<b>21.3027</b>	<b>10.2104</b>	<b>1.2771</b>	<b>11.3585</b>	<b>0.0000</b>	<b>8,595.865 1</b>	<b>8,595.865 1</b>	<b>1.6381</b>	<b>0.3165</b>	<b>8,731.147 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					
2024	1.3999	8.4824	41.2055	0.0865	9.2441	0.1248	9.3241	4.6540	0.1230	4.7332	0.0000	8,595.865 1	8,595.865 1	1.6381	0.3165	8,731.147 7
2025	163.7158	4.4295	22.3313	0.0461	1.8172	0.0581	1.8752	0.4873	0.0570	0.5444	0.0000	4,576.311 8	4,576.311 8	0.7165	0.1493	4,637.248 9
<b>Maximum</b>	<b>163.7158</b>	<b>8.4824</b>	<b>41.2055</b>	<b>0.0865</b>	<b>9.2441</b>	<b>0.1248</b>	<b>9.3241</b>	<b>4.6540</b>	<b>0.1230</b>	<b>4.7332</b>	<b>0.0000</b>	<b>8,595.865 1</b>	<b>8,595.865 1</b>	<b>1.6381</b>	<b>0.3165</b>	<b>8,731.147 7</b>





Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.3699	0.2375	20.6226	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	37.1742	37.1742	0.0357	0.0000	38.0656
Energy	0.0841	0.7269	0.3642	4.5900e-003		0.0581	0.0581		0.0581	0.0581		917.7430	917.7430	0.0176	0.0168	923.1966
Mobile	4.1784	5.8214	41.7789	0.0800	8.9693	0.0644	9.0337	2.3910	0.0602	2.4512		8,159.7786	8,159.7786	0.6263	0.4396	8,306.4346
<b>Total</b>	<b>9.6324</b>	<b>6.7857</b>	<b>62.7656</b>	<b>0.0856</b>	<b>8.9693</b>	<b>0.2370</b>	<b>9.2062</b>	<b>2.3910</b>	<b>0.2327</b>	<b>2.6237</b>	<b>0.0000</b>	<b>9,114.6958</b>	<b>9,114.6958</b>	<b>0.6796</b>	<b>0.4564</b>	<b>9,267.6969</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	5.3699	0.2375	20.6226	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	37.1742	37.1742	0.0357	0.0000	38.0656
Energy	0.0841	0.7269	0.3642	4.5900e-003		0.0581	0.0581		0.0581	0.0581		917.7430	917.7430	0.0176	0.0168	923.1966
Mobile	4.1784	5.8214	41.7789	0.0800	8.9693	0.0644	9.0337	2.3910	0.0602	2.4512		8,159.7786	8,159.7786	0.6263	0.4396	8,306.4346
<b>Total</b>	<b>9.6324</b>	<b>6.7857</b>	<b>62.7656</b>	<b>0.0856</b>	<b>8.9693</b>	<b>0.2370</b>	<b>9.2062</b>	<b>2.3910</b>	<b>0.2327</b>	<b>2.6237</b>	<b>0.0000</b>	<b>9,114.6958</b>	<b>9,114.6958</b>	<b>0.6796</b>	<b>0.4564</b>	<b>9,267.6969</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/2/2024	10/23/2024	5	16	
2	Site Preparation	Site Preparation	10/24/2024	11/4/2024	5	8	
3	Grading	Grading	11/5/2024	11/27/2024	5	17	
4	Building Construction	Building Construction	11/27/2024	6/30/2025	5	154	
5	Paving	Paving	7/1/2025	7/18/2025	5	14	
6	Architectural Coating	Architectural Coating	7/21/2025	8/6/2025	5	14	

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 1.14**

**Residential Indoor: 311,850; Residential Outdoor: 103,950; Non-Residential Indoor: 57,000; Non-Residential Outdoor: 19,000; Striped Parking Area: 2,280 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	120.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	255.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	208.00	39.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
<b>Total</b>	<b>2.2437</b>	<b>20.8781</b>	<b>19.7073</b>	<b>0.0388</b>		<b>0.9602</b>	<b>0.9602</b>		<b>0.8922</b>	<b>0.8922</b>		<b>3,747.4228</b>	<b>3,747.4228</b>	<b>1.0485</b>		<b>3,773.6345</b>

**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	0.0378	2.3767	0.4862	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0165	0.0881		1,007.9175	1,007.9175	0.0400	0.1598	1,056.5451
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0265	0.3321	9.0000e-004	0.1141	5.6000e-004	0.1147	0.0303	5.2000e-004	0.0308		92.5976	92.5976	3.0600e-003	2.8000e-003	93.5072
<b>Total</b>	<b>0.0797</b>	<b>2.4032</b>	<b>0.8182</b>	<b>0.0101</b>	<b>0.3756</b>	<b>0.0178</b>	<b>0.3934</b>	<b>0.1019</b>	<b>0.0170</b>	<b>0.1189</b>		<b>1,100.5150</b>	<b>1,100.5150</b>	<b>0.0430</b>	<b>0.1626</b>	<b>1,150.0523</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.4228</b>	<b>3,747.4228</b>	<b>1.0485</b>		<b>3,773.6345</b>

**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	0.0378	2.3767	0.4862	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0165	0.0881		1,007.9175	1,007.9175	0.0400	0.1598	1,056.5451
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0265	0.3321	9.0000e-004	0.1141	5.6000e-004	0.1147	0.0303	5.2000e-004	0.0308		92.5976	92.5976	3.0600e-003	2.8000e-003	93.5072
<b>Total</b>	<b>0.0797</b>	<b>2.4032</b>	<b>0.8182</b>	<b>0.0101</b>	<b>0.3756</b>	<b>0.0178</b>	<b>0.3934</b>	<b>0.1019</b>	<b>0.0170</b>	<b>0.1189</b>		<b>1,100.5150</b>	<b>1,100.5150</b>	<b>0.0430</b>	<b>0.1626</b>	<b>1,150.0523</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**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	0.0378	2.3767	0.4862	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0165	0.0881		1,007.917 5	1,007.917 5	0.0400	0.1598	1,056.545 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0318	0.3985	1.0800e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		111.1171	111.1171	3.6800e-003	3.3500e-003	112.2087
<b>Total</b>	<b>0.0881</b>	<b>2.4085</b>	<b>0.8847</b>	<b>0.0103</b>	<b>0.3984</b>	<b>0.0179</b>	<b>0.4163</b>	<b>0.1079</b>	<b>0.0171</b>	<b>0.1250</b>		<b>1,119.034 6</b>	<b>1,119.034 6</b>	<b>0.0436</b>	<b>0.1632</b>	<b>1,168.753 7</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**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	0.0378	2.3767	0.4862	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0165	0.0881		1,007.917 5	1,007.917 5	0.0400	0.1598	1,056.545 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0318	0.3985	1.0800e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		111.1171	111.1171	3.6800e-003	3.3500e-003	112.2087
<b>Total</b>	<b>0.0881</b>	<b>2.4085</b>	<b>0.8847</b>	<b>0.0103</b>	<b>0.3984</b>	<b>0.0179</b>	<b>0.4163</b>	<b>0.1079</b>	<b>0.0171</b>	<b>0.1250</b>		<b>1,119.034 6</b>	<b>1,119.034 6</b>	<b>0.0436</b>	<b>0.1632</b>	<b>1,168.753 7</b>



Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292		2,896.284 2
<b>Total</b>	<b>1.6617</b>	<b>17.0310</b>	<b>14.7594</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7244</b>	<b>7.8070</b>	<b>3.4247</b>	<b>0.6665</b>	<b>4.0912</b>		<b>2,873.054 1</b>	<b>2,873.054 1</b>	<b>0.9292</b>		<b>2,896.284 2</b>

**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	0.0378	2.3767	0.4862	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0165	0.0881		1,007.917 5	1,007.917 5	0.0400	0.1598	1,056.545 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0265	0.3321	9.0000e-004	0.1141	5.6000e-004	0.1147	0.0303	5.2000e-004	0.0308		92.5976	92.5976	3.0600e-003	2.8000e-003	93.5072
<b>Total</b>	<b>0.0797</b>	<b>2.4032</b>	<b>0.8182</b>	<b>0.0101</b>	<b>0.3756</b>	<b>0.0178</b>	<b>0.3934</b>	<b>0.1019</b>	<b>0.0170</b>	<b>0.1189</b>		<b>1,100.515 0</b>	<b>1,100.515 0</b>	<b>0.0430</b>	<b>0.1626</b>	<b>1,150.052 3</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.054 1</b>	<b>2,873.054 1</b>	<b>0.9292</b>		<b>2,896.284 2</b>

**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	0.0378	2.3767	0.4862	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0165	0.0881		1,007.917 5	1,007.917 5	0.0400	0.1598	1,056.545 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0265	0.3321	9.0000e-004	0.1141	5.6000e-004	0.1147	0.0303	5.2000e-004	0.0308		92.5976	92.5976	3.0600e-003	2.8000e-003	93.5072
<b>Total</b>	<b>0.0797</b>	<b>2.4032</b>	<b>0.8182</b>	<b>0.0101</b>	<b>0.3756</b>	<b>0.0178</b>	<b>0.3934</b>	<b>0.1019</b>	<b>0.0170</b>	<b>0.1189</b>		<b>1,100.515 0</b>	<b>1,100.515 0</b>	<b>0.0430</b>	<b>0.1626</b>	<b>1,150.052 3</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0482	1.9029	0.5696	7.2900e-003	0.2349	0.0100	0.2450	0.0676	9.6000e-003	0.0772		782.5775	782.5775	0.0191	0.1152	817.3701
Worker	0.5810	0.3679	4.6047	0.0125	1.5823	7.7700e-003	1.5900	0.4197	7.1500e-003	0.4269		1,284.0197	1,284.0197	0.0425	0.0388	1,296.6335
<b>Total</b>	<b>0.6292</b>	<b>2.2708</b>	<b>5.1744</b>	<b>0.0197</b>	<b>1.8172</b>	<b>0.0178</b>	<b>1.8350</b>	<b>0.4873</b>	<b>0.0168</b>	<b>0.5041</b>		<b>2,066.5971</b>	<b>2,066.5971</b>	<b>0.0616</b>	<b>0.1539</b>	<b>2,114.0036</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0482	1.9029	0.5696	7.2900e-003	0.2349	0.0100	0.2450	0.0676	9.6000e-003	0.0772		782.5775	782.5775	0.0191	0.1152	817.3701
Worker	0.5810	0.3679	4.6047	0.0125	1.5823	7.7700e-003	1.5900	0.4197	7.1500e-003	0.4269		1,284.0197	1,284.0197	0.0425	0.0388	1,296.6335
<b>Total</b>	<b>0.6292</b>	<b>2.2708</b>	<b>5.1744</b>	<b>0.0197</b>	<b>1.8172</b>	<b>0.0178</b>	<b>1.8350</b>	<b>0.4873</b>	<b>0.0168</b>	<b>0.5041</b>		<b>2,066.5971</b>	<b>2,066.5971</b>	<b>0.0616</b>	<b>0.1539</b>	<b>2,114.0036</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0464	1.8647	0.5562	7.1400e-003	0.2349	9.8300e-003	0.2447	0.0676	9.4100e-003	0.0770		766.7952	766.7952	0.0187	0.1130	800.9452
Worker	0.5462	0.3301	4.3149	0.0120	1.5823	7.4300e-003	1.5897	0.4197	6.8400e-003	0.4265		1,253.042 3	1,253.042 3	0.0387	0.0362	1,264.805 7
<b>Total</b>	<b>0.5925</b>	<b>2.1948</b>	<b>4.8711</b>	<b>0.0192</b>	<b>1.8172</b>	<b>0.0173</b>	<b>1.8344</b>	<b>0.4873</b>	<b>0.0163</b>	<b>0.5036</b>		<b>2,019.837 5</b>	<b>2,019.837 5</b>	<b>0.0573</b>	<b>0.1493</b>	<b>2,065.750 8</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0464	1.8647	0.5562	7.1400e-003	0.2349	9.8300e-003	0.2447	0.0676	9.4100e-003	0.0770		766.7952	766.7952	0.0187	0.1130	800.9452
Worker	0.5462	0.3301	4.3149	0.0120	1.5823	7.4300e-003	1.5897	0.4197	6.8400e-003	0.4265		1,253.042 3	1,253.042 3	0.0387	0.0362	1,264.805 7
<b>Total</b>	<b>0.5925</b>	<b>2.1948</b>	<b>4.8711</b>	<b>0.0192</b>	<b>1.8172</b>	<b>0.0173</b>	<b>1.8344</b>	<b>0.4873</b>	<b>0.0163</b>	<b>0.5036</b>		<b>2,019.837 5</b>	<b>2,019.837 5</b>	<b>0.0573</b>	<b>0.1493</b>	<b>2,065.750 8</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120
<b>Total</b>	<b>0.0394</b>	<b>0.0238</b>	<b>0.3112</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>90.3636</b>	<b>90.3636</b>	<b>2.7900e-003</b>	<b>2.6100e-003</b>	<b>91.2120</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120
<b>Total</b>	<b>0.0394</b>	<b>0.0238</b>	<b>0.3112</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>90.3636</b>	<b>90.3636</b>	<b>2.7900e-003</b>	<b>2.6100e-003</b>	<b>91.2120</b>



Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	163.5758					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>163.7466</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1103	0.0667	0.8713	2.4300e-003	0.3195	1.5000e-003	0.3210	0.0848	1.3800e-003	0.0861		253.0182	253.0182	7.8100e-003	7.3200e-003	255.3935
<b>Total</b>	<b>0.1103</b>	<b>0.0667</b>	<b>0.8713</b>	<b>2.4300e-003</b>	<b>0.3195</b>	<b>1.5000e-003</b>	<b>0.3210</b>	<b>0.0848</b>	<b>1.3800e-003</b>	<b>0.0861</b>		<b>253.0182</b>	<b>253.0182</b>	<b>7.8100e-003</b>	<b>7.3200e-003</b>	<b>255.3935</b>

Innovation Park CNU Phase 2C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2025**

**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	163.5758					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>163.6055</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1103	0.0667	0.8713	2.4300e-003	0.3195	1.5000e-003	0.3210	0.0848	1.3800e-003	0.0861		253.0182	253.0182	7.8100e-003	7.3200e-003	255.3935
<b>Total</b>	<b>0.1103</b>	<b>0.0667</b>	<b>0.8713</b>	<b>2.4300e-003</b>	<b>0.3195</b>	<b>1.5000e-003</b>	<b>0.3210</b>	<b>0.0848</b>	<b>1.3800e-003</b>	<b>0.0861</b>		<b>253.0182</b>	<b>253.0182</b>	<b>7.8100e-003</b>	<b>7.3200e-003</b>	<b>255.3935</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2D**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Day-Care Center	15.00	1000sqft	0.34	15,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2027
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics - Daycare construction only
- Land Use - daycare part 1
- Construction Phase - schedule adjusted
- Trips and VMT - 15 trips / day for site prep, grade, demo
- Grading -
- Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMP

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	34.00
tblConstructionPhase	NumDays	1.00	3.00
tblConstructionPhase	NumDays	2.00	4.00
tblConstructionPhase	NumDays	100.00	55.00
tblConstructionPhase	NumDays	5.00	3.00
tblConstructionPhase	NumDays	5.00	3.00
tblTripsAndVMT	HaulingTripNumber	0.00	510.00
tblTripsAndVMT	HaulingTripNumber	0.00	45.00
tblTripsAndVMT	HaulingTripNumber	0.00	60.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	0.6375	7.4297	8.0592	0.0216	0.3375	0.2275	0.5650	0.0918	0.2173	0.3091	0.0000	2,196.190 3	2,196.190 3	0.2472	0.1582	2,249.527 6
2026	46.5233	16.5803	13.2130	0.0355	5.6919	0.6071	6.2990	2.6718	0.5591	3.2310	0.0000	3,557.220 9	3,557.220 9	0.8408	0.1612	3,626.282 9
<b>Maximum</b>	<b>46.5233</b>	<b>16.5803</b>	<b>13.2130</b>	<b>0.0355</b>	<b>5.6919</b>	<b>0.6071</b>	<b>6.2990</b>	<b>2.6718</b>	<b>0.5591</b>	<b>3.2310</b>	<b>0.0000</b>	<b>3,557.220 9</b>	<b>3,557.220 9</b>	<b>0.8408</b>	<b>0.1612</b>	<b>3,626.282 9</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					
2025	0.1958	2.9036	8.5461	0.0216	0.3375	0.0349	0.3725	0.0918	0.0342	0.1259	0.0000	2,196.190 3	2,196.190 3	0.2472	0.1582	2,249.527 6
2026	46.3822	3.7169	15.6718	0.0355	2.7703	0.0591	2.8294	1.2591	0.0583	1.3174	0.0000	3,557.220 9	3,557.220 9	0.8408	0.1612	3,626.282 9
<b>Maximum</b>	<b>46.3822</b>	<b>3.7169</b>	<b>15.6718</b>	<b>0.0355</b>	<b>2.7703</b>	<b>0.0591</b>	<b>2.8294</b>	<b>1.2591</b>	<b>0.0583</b>	<b>1.3174</b>	<b>0.0000</b>	<b>3,557.220 9</b>	<b>3,557.220 9</b>	<b>0.8408</b>	<b>0.1612</b>	<b>3,626.282 9</b>

## Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.24	72.43	-13.85	0.00	48.46	88.74	53.35	51.12	88.09	59.23	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3592	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2800e-003	3.2800e-003	1.0000e-005		3.5000e-003
Energy	6.7000e-003	0.0609	0.0512	3.7000e-004		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003		73.1023	73.1023	1.4000e-003	1.3400e-003	73.5368
Mobile	1.1006	1.1099	8.6195	0.0118	1.3375	0.0104	1.3479	0.3565	9.6800e-003	0.3662		1,207.5327	1,207.5327	0.1440	0.0877	1,237.2712
<b>Total</b>	<b>1.4665</b>	<b>1.1708</b>	<b>8.6722</b>	<b>0.0122</b>	<b>1.3375</b>	<b>0.0150</b>	<b>1.3526</b>	<b>0.3565</b>	<b>0.0143</b>	<b>0.3708</b>		<b>1,280.6383</b>	<b>1,280.6383</b>	<b>0.1454</b>	<b>0.0891</b>	<b>1,310.8115</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	0.3592	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2800e-003	3.2800e-003	1.0000e-005		3.5000e-003
Energy	6.7000e-003	0.0609	0.0512	3.7000e-004		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003		73.1023	73.1023	1.4000e-003	1.3400e-003	73.5368
Mobile	1.1006	1.1099	8.6195	0.0118	1.3375	0.0104	1.3479	0.3565	9.6800e-003	0.3662		1,207.5327	1,207.5327	0.1440	0.0877	1,237.2712
<b>Total</b>	<b>1.4665</b>	<b>1.1708</b>	<b>8.6722</b>	<b>0.0122</b>	<b>1.3375</b>	<b>0.0150</b>	<b>1.3526</b>	<b>0.3565</b>	<b>0.0143</b>	<b>0.3708</b>		<b>1,280.6383</b>	<b>1,280.6383</b>	<b>0.1454</b>	<b>0.0891</b>	<b>1,310.8115</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/26/2025	1/12/2026	5	34	
2	Site Preparation	Site Preparation	1/13/2026	1/15/2026	5	3	
3	Grading	Grading	1/16/2026	1/21/2026	5	4	
4	Building Construction	Building Construction	1/21/2026	4/7/2026	5	55	
5	Paving	Paving	4/8/2026	4/10/2026	5	3	
6	Architectural Coating	Architectural Coating	4/13/2026	4/15/2026	5	3	

**Acres of Grading (Site Preparation Phase): 1.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37



Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	510.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	45.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	60.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	6.00	2.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008		1,149.1195	1,149.1195	0.2060		1,154.2705
<b>Total</b>	<b>0.5743</b>	<b>5.1008</b>	<b>7.3641</b>	<b>0.0120</b>		<b>0.2102</b>	<b>0.2102</b>		<b>0.2008</b>	<b>0.2008</b>		<b>1,149.1195</b>	<b>1,149.1195</b>	<b>0.2060</b>		<b>1,154.2705</b>

**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	0.0369	2.3130	0.4877	9.0300e-003	0.2615	0.0169	0.2783	0.0716	0.0162	0.0877		986.8284	986.8284	0.0393	0.1565	1,034.4492
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0263	0.0159	0.2075	5.8000e-004	0.0761	3.6000e-004	0.0764	0.0202	3.3000e-004	0.0205		60.2424	60.2424	1.8600e-003	1.7400e-003	60.8080
<b>Total</b>	<b>0.0632</b>	<b>2.3289</b>	<b>0.6951</b>	<b>9.6100e-003</b>	<b>0.3375</b>	<b>0.0173</b>	<b>0.3548</b>	<b>0.0918</b>	<b>0.0165</b>	<b>0.1083</b>		<b>1,047.0708</b>	<b>1,047.0708</b>	<b>0.0412</b>	<b>0.1582</b>	<b>1,095.2571</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705
<b>Total</b>	<b>0.1326</b>	<b>0.5747</b>	<b>7.8509</b>	<b>0.0120</b>		<b>0.0177</b>	<b>0.0177</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>1,149.1195</b>	<b>1,149.1195</b>	<b>0.2060</b>		<b>1,154.2705</b>

**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	0.0369	2.3130	0.4877	9.0300e-003	0.2615	0.0169	0.2783	0.0716	0.0162	0.0877		986.8284	986.8284	0.0393	0.1565	1,034.4492
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0263	0.0159	0.2075	5.8000e-004	0.0761	3.6000e-004	0.0764	0.0202	3.3000e-004	0.0205		60.2424	60.2424	1.8600e-003	1.7400e-003	60.8080
<b>Total</b>	<b>0.0632</b>	<b>2.3289</b>	<b>0.6951</b>	<b>9.6100e-003</b>	<b>0.3375</b>	<b>0.0173</b>	<b>0.3548</b>	<b>0.0918</b>	<b>0.0165</b>	<b>0.1083</b>		<b>1,047.0708</b>	<b>1,047.0708</b>	<b>0.0412</b>	<b>0.1582</b>	<b>1,095.2571</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008		1,149.1195	1,149.1195	0.2060		1,154.2705
<b>Total</b>	<b>0.5743</b>	<b>5.1008</b>	<b>7.3641</b>	<b>0.0120</b>		<b>0.2102</b>	<b>0.2102</b>		<b>0.2008</b>	<b>0.2008</b>		<b>1,149.1195</b>	<b>1,149.1195</b>	<b>0.2060</b>		<b>1,154.2705</b>

**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	0.0360	2.2504	0.4882	8.8400e-003	0.2614	0.0165	0.2779	0.0716	0.0158	0.0873		966.0766	966.0766	0.0386	0.1532	1,012.7019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0248	0.0144	0.1956	5.6000e-004	0.0761	3.4000e-004	0.0764	0.0202	3.1000e-004	0.0205		58.8147	58.8147	1.7000e-003	1.6400e-003	59.3461
<b>Total</b>	<b>0.0608</b>	<b>2.2647</b>	<b>0.6838</b>	<b>9.4000e-003</b>	<b>0.3375</b>	<b>0.0168</b>	<b>0.3543</b>	<b>0.0917</b>	<b>0.0161</b>	<b>0.1078</b>		<b>1,024.8913</b>	<b>1,024.8913</b>	<b>0.0403</b>	<b>0.1549</b>	<b>1,072.0480</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705
<b>Total</b>	<b>0.1326</b>	<b>0.5747</b>	<b>7.8509</b>	<b>0.0120</b>		<b>0.0177</b>	<b>0.0177</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>1,149.1195</b>	<b>1,149.1195</b>	<b>0.2060</b>		<b>1,154.2705</b>

**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	0.0360	2.2504	0.4882	8.8400e-003	0.2614	0.0165	0.2779	0.0716	0.0158	0.0873		966.0766	966.0766	0.0386	0.1532	1,012.7019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0248	0.0144	0.1956	5.6000e-004	0.0761	3.4000e-004	0.0764	0.0202	3.1000e-004	0.0205		58.8147	58.8147	1.7000e-003	1.6400e-003	59.3461
<b>Total</b>	<b>0.0608</b>	<b>2.2647</b>	<b>0.6838</b>	<b>9.4000e-003</b>	<b>0.3375</b>	<b>0.0168</b>	<b>0.3543</b>	<b>0.0917</b>	<b>0.0161</b>	<b>0.1078</b>		<b>1,024.8913</b>	<b>1,024.8913</b>	<b>0.0403</b>	<b>0.1549</b>	<b>1,072.0480</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521		942.2955	942.2955	0.3048		949.9144
<b>Total</b>	<b>0.4432</b>	<b>4.7918</b>	<b>3.8238</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.1654</b>	<b>0.6956</b>	<b>0.0573</b>	<b>0.1521</b>	<b>0.2094</b>		<b>942.2955</b>	<b>942.2955</b>	<b>0.3048</b>		<b>949.9144</b>

**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	0.0360	2.2504	0.4882	8.8400e-003	0.2614	0.0165	0.2779	0.0716	0.0158	0.0873		966.0766	966.0766	0.0386	0.1532	1,012.7019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	7.1900e-003	0.0978	2.8000e-004	0.0380	1.7000e-004	0.0382	0.0101	1.6000e-004	0.0103		29.4073	29.4073	8.5000e-004	8.2000e-004	29.6731
<b>Total</b>	<b>0.0484</b>	<b>2.2575</b>	<b>0.5860</b>	<b>9.1200e-003</b>	<b>0.2994</b>	<b>0.0167</b>	<b>0.3161</b>	<b>0.0817</b>	<b>0.0159</b>	<b>0.0976</b>		<b>995.4840</b>	<b>995.4840</b>	<b>0.0394</b>	<b>0.1540</b>	<b>1,042.3750</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2026**

**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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.1191	0.5162	5.3170	9.7300e-003		0.0159	0.0159		0.0159	0.0159	0.0000	942.2955	942.2955	0.3048		949.9144
<b>Total</b>	<b>0.1191</b>	<b>0.5162</b>	<b>5.3170</b>	<b>9.7300e-003</b>	<b>0.2386</b>	<b>0.0159</b>	<b>0.2545</b>	<b>0.0258</b>	<b>0.0159</b>	<b>0.0416</b>	<b>0.0000</b>	<b>942.2955</b>	<b>942.2955</b>	<b>0.3048</b>		<b>949.9144</b>

**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	0.0360	2.2504	0.4882	8.8400e-003	0.2614	0.0165	0.2779	0.0716	0.0158	0.0873		966.0766	966.0766	0.0386	0.1532	1,012.7019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	7.1900e-003	0.0978	2.8000e-004	0.0380	1.7000e-004	0.0382	0.0101	1.6000e-004	0.0103		29.4073	29.4073	8.5000e-004	8.2000e-004	29.6731
<b>Total</b>	<b>0.0484</b>	<b>2.2575</b>	<b>0.5860</b>	<b>9.1200e-003</b>	<b>0.2994</b>	<b>0.0167</b>	<b>0.3161</b>	<b>0.0817</b>	<b>0.0159</b>	<b>0.0976</b>		<b>995.4840</b>	<b>995.4840</b>	<b>0.0394</b>	<b>0.1540</b>	<b>1,042.3750</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.8350	8.7341	5.3948	0.0141		0.3484	0.3484		0.3205	0.3205		1,364.6987	1,364.6987	0.4414		1,375.7329
<b>Total</b>	<b>0.8350</b>	<b>8.7341</b>	<b>5.3948</b>	<b>0.0141</b>	<b>5.3119</b>	<b>0.3484</b>	<b>5.6603</b>	<b>2.5686</b>	<b>0.3205</b>	<b>2.8891</b>		<b>1,364.6987</b>	<b>1,364.6987</b>	<b>0.4414</b>		<b>1,375.7329</b>

**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	0.0360	2.2504	0.4882	8.8400e-003	0.2614	0.0165	0.2779	0.0716	0.0158	0.0873		966.0766	966.0766	0.0386	0.1532	1,012.7019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0198	0.0115	0.1565	4.5000e-004	0.0609	2.7000e-004	0.0611	0.0161	2.5000e-004	0.0164		47.0517	47.0517	1.3600e-003	1.3100e-003	47.4769
<b>Total</b>	<b>0.0558</b>	<b>2.2619</b>	<b>0.6447</b>	<b>9.2900e-003</b>	<b>0.3223</b>	<b>0.0168</b>	<b>0.3390</b>	<b>0.0877</b>	<b>0.0160</b>	<b>0.1037</b>		<b>1,013.1284</b>	<b>1,013.1284</b>	<b>0.0400</b>	<b>0.1545</b>	<b>1,060.1788</b>



Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2026**

**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					2.3904	0.0000	2.3904	1.1559	0.0000	1.1559			0.0000			0.0000
Off-Road	0.1725	0.7475	7.1557	0.0141		0.0230	0.0230		0.0230	0.0230	0.0000	1,364.6987	1,364.6987	0.4414		1,375.7329
<b>Total</b>	<b>0.1725</b>	<b>0.7475</b>	<b>7.1557</b>	<b>0.0141</b>	<b>2.3904</b>	<b>0.0230</b>	<b>2.4134</b>	<b>1.1559</b>	<b>0.0230</b>	<b>1.1789</b>	<b>0.0000</b>	<b>1,364.6987</b>	<b>1,364.6987</b>	<b>0.4414</b>		<b>1,375.7329</b>

**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	0.0360	2.2504	0.4882	8.8400e-003	0.2614	0.0165	0.2779	0.0716	0.0158	0.0873		966.0766	966.0766	0.0386	0.1532	1,012.7019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0198	0.0115	0.1565	4.5000e-004	0.0609	2.7000e-004	0.0611	0.0161	2.5000e-004	0.0164		47.0517	47.0517	1.3600e-003	1.3100e-003	47.4769
<b>Total</b>	<b>0.0558</b>	<b>2.2619</b>	<b>0.6447</b>	<b>9.2900e-003</b>	<b>0.3223</b>	<b>0.0168</b>	<b>0.3390</b>	<b>0.0877</b>	<b>0.0160</b>	<b>0.1037</b>		<b>1,013.1284</b>	<b>1,013.1284</b>	<b>0.0400</b>	<b>0.1545</b>	<b>1,060.1788</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102
<b>Total</b>	<b>0.5510</b>	<b>5.4820</b>	<b>7.0282</b>	<b>0.0114</b>		<b>0.2413</b>	<b>0.2413</b>		<b>0.2220</b>	<b>0.2220</b>		<b>1,105.5711</b>	<b>1,105.5711</b>	<b>0.3576</b>		<b>1,114.5102</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2900e-003	0.0937	0.0280	3.6000e-004	0.0121	4.9000e-004	0.0125	3.4700e-003	4.7000e-004	3.9400e-003		38.5340	38.5340	9.4000e-004	5.6900e-003	40.2533
Worker	0.0149	8.6300e-003	0.1174	3.4000e-004	0.0456	2.0000e-004	0.0459	0.0121	1.9000e-004	0.0123		35.2888	35.2888	1.0200e-003	9.8000e-004	35.6077
<b>Total</b>	<b>0.0172</b>	<b>0.1023</b>	<b>0.1453</b>	<b>7.0000e-004</b>	<b>0.0577</b>	<b>6.9000e-004</b>	<b>0.0584</b>	<b>0.0156</b>	<b>6.6000e-004</b>	<b>0.0162</b>		<b>73.8228</b>	<b>73.8228</b>	<b>1.9600e-003</b>	<b>6.6700e-003</b>	<b>75.8610</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102
<b>Total</b>	<b>0.1397</b>	<b>0.6052</b>	<b>7.7261</b>	<b>0.0114</b>		<b>0.0186</b>	<b>0.0186</b>		<b>0.0186</b>	<b>0.0186</b>	<b>0.0000</b>	<b>1,105.5711</b>	<b>1,105.5711</b>	<b>0.3576</b>		<b>1,114.5102</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2900e-003	0.0937	0.0280	3.6000e-004	0.0121	4.9000e-004	0.0125	3.4700e-003	4.7000e-004	3.9400e-003		38.5340	38.5340	9.4000e-004	5.6900e-003	40.2533
Worker	0.0149	8.6300e-003	0.1174	3.4000e-004	0.0456	2.0000e-004	0.0459	0.0121	1.9000e-004	0.0123		35.2888	35.2888	1.0200e-003	9.8000e-004	35.6077
<b>Total</b>	<b>0.0172</b>	<b>0.1023</b>	<b>0.1453</b>	<b>7.0000e-004</b>	<b>0.0577</b>	<b>6.9000e-004</b>	<b>0.0584</b>	<b>0.0156</b>	<b>6.6000e-004</b>	<b>0.0162</b>		<b>73.8228</b>	<b>73.8228</b>	<b>1.9600e-003</b>	<b>6.6700e-003</b>	<b>75.8610</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.5638	4.9206	7.0257	0.0113		0.2186	0.2186		0.2046	0.2046		1,036.2711	1,036.2711	0.3019		1,043.8179
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5638</b>	<b>4.9206</b>	<b>7.0257</b>	<b>0.0113</b>		<b>0.2186</b>	<b>0.2186</b>		<b>0.2046</b>	<b>0.2046</b>		<b>1,036.2711</b>	<b>1,036.2711</b>	<b>0.3019</b>		<b>1,043.8179</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0259	0.3521	1.0100e-003	0.1369	6.1000e-004	0.1375	0.0363	5.6000e-004	0.0369		105.8664	105.8664	3.0600e-003	2.9500e-003	106.8230
<b>Total</b>	<b>0.0446</b>	<b>0.0259</b>	<b>0.3521</b>	<b>1.0100e-003</b>	<b>0.1369</b>	<b>6.1000e-004</b>	<b>0.1375</b>	<b>0.0363</b>	<b>5.6000e-004</b>	<b>0.0369</b>		<b>105.8664</b>	<b>105.8664</b>	<b>3.0600e-003</b>	<b>2.9500e-003</b>	<b>106.8230</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1119	0.4851	6.9028	0.0113		0.0149	0.0149		0.0149	0.0149	0.0000	1,036.2711	1,036.2711	0.3019		1,043.8179
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1119</b>	<b>0.4851</b>	<b>6.9028</b>	<b>0.0113</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0149</b>	<b>0.0149</b>	<b>0.0000</b>	<b>1,036.2711</b>	<b>1,036.2711</b>	<b>0.3019</b>		<b>1,043.8179</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0259	0.3521	1.0100e-003	0.1369	6.1000e-004	0.1375	0.0363	5.6000e-004	0.0369		105.8664	105.8664	3.0600e-003	2.9500e-003	106.8230
<b>Total</b>	<b>0.0446</b>	<b>0.0259</b>	<b>0.3521</b>	<b>1.0100e-003</b>	<b>0.1369</b>	<b>6.1000e-004</b>	<b>0.1375</b>	<b>0.0363</b>	<b>5.6000e-004</b>	<b>0.0369</b>		<b>105.8664</b>	<b>105.8664</b>	<b>3.0600e-003</b>	<b>2.9500e-003</b>	<b>106.8230</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	46.3500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>46.5209</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4800e-003	1.4400e-003	0.0196	6.0000e-005	7.6100e-003	3.0000e-005	7.6400e-003	2.0200e-003	3.0000e-005	2.0500e-003		5.8815	5.8815	1.7000e-004	1.6000e-004	5.9346
<b>Total</b>	<b>2.4800e-003</b>	<b>1.4400e-003</b>	<b>0.0196</b>	<b>6.0000e-005</b>	<b>7.6100e-003</b>	<b>3.0000e-005</b>	<b>7.6400e-003</b>	<b>2.0200e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>		<b>5.8815</b>	<b>5.8815</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>5.9346</b>

Innovation Park CNU Phase 2D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2026**

**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	46.3500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>46.3797</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4800e-003	1.4400e-003	0.0196	6.0000e-005	7.6100e-003	3.0000e-005	7.6400e-003	2.0200e-003	3.0000e-005	2.0500e-003		5.8815	5.8815	1.7000e-004	1.6000e-004	5.9346
<b>Total</b>	<b>2.4800e-003</b>	<b>1.4400e-003</b>	<b>0.0196</b>	<b>6.0000e-005</b>	<b>7.6100e-003</b>	<b>3.0000e-005</b>	<b>7.6400e-003</b>	<b>2.0200e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>		<b>5.8815</b>	<b>5.8815</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>5.9346</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2E**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	166.80	1000sqft	3.83	166,800.00	0
Enclosed Parking Structure	83.00	Space	0.75	33,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2028
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - pharm bldg 2

Land Use - Pharm BLDG 2

Construction Phase - Schedule adjusted

Trips and VMT - 15 truck/day

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMP

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	NumDays	8.00	11.00
tblConstructionPhase	NumDays	230.00	312.00

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	18.00	24.00
tblConstructionPhase	NumDays	18.00	24.00
tblTripsAndVMT	HaulingTripNumber	0.00	360.00
tblTripsAndVMT	HaulingTripNumber	0.00	90.00
tblTripsAndVMT	HaulingTripNumber	0.00	165.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	3.1539	31.6018	33.0870	0.0755	20.0553	1.1778	21.1587	10.2103	1.0953	11.2261	0.0000	7,468.0906	7,468.0906	1.5959	0.2546	7,583.8550
2028	65.0109	14.0439	17.7168	0.0362	0.7084	0.5373	1.2457	0.1924	0.5055	0.6979	0.0000	3,543.2565	3,543.2565	0.6253	0.1003	3,588.7715
<b>Maximum</b>	<b>65.0109</b>	<b>31.6018</b>	<b>33.0870</b>	<b>0.0755</b>	<b>20.0553</b>	<b>1.1778</b>	<b>21.1587</b>	<b>10.2103</b>	<b>1.0953</b>	<b>11.2261</b>	<b>0.0000</b>	<b>7,468.0906</b>	<b>7,468.0906</b>	<b>1.5959</b>	<b>0.2546</b>	<b>7,583.8550</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					
2027	0.9548	7.6258	37.6751	0.0755	9.2439	0.1159	9.3227	4.6540	0.1146	4.7320	0.0000	7,468.0906	7,468.0906	1.5959	0.2546	7,583.8550
2028	64.8698	3.8089	19.0924	0.0362	0.7084	0.0506	0.7589	0.1924	0.0501	0.2425	0.0000	3,543.2565	3,543.2565	0.6253	0.1003	3,588.7715
<b>Maximum</b>	<b>64.8698</b>	<b>7.6258</b>	<b>37.6751</b>	<b>0.0755</b>	<b>9.2439</b>	<b>0.1159</b>	<b>9.3227</b>	<b>4.6540</b>	<b>0.1146</b>	<b>4.7320</b>	<b>0.0000</b>	<b>7,468.0906</b>	<b>7,468.0906</b>	<b>1.5959</b>	<b>0.2546</b>	<b>7,583.8550</b>

## Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.43	74.95	-11.74	0.00	52.07	90.30	55.00	53.41	89.71	58.28	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.0098	2.3000e-004	0.0254	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0547	0.0547	1.4000e-004		0.0582
Energy	0.3299	2.9991	2.5192	0.0180		0.2279	0.2279		0.2279	0.2279		3,598.9015	3,598.9015	0.0690	0.0660	3,620.2880
Mobile	3.7996	5.0990	38.7921	0.0753	9.2746	0.0575	9.3321	2.4717	0.0537	2.5253		8,021.9145	8,021.9145	0.5796	0.4092	8,158.3304
<b>Total</b>	<b>8.1393</b>	<b>8.0983</b>	<b>41.3367</b>	<b>0.0933</b>	<b>9.2746</b>	<b>0.2855</b>	<b>9.5601</b>	<b>2.4717</b>	<b>0.2817</b>	<b>2.7534</b>		<b>11,620.8707</b>	<b>11,620.8707</b>	<b>0.6487</b>	<b>0.4751</b>	<b>11,778.6766</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	4.0098	2.3000e-004	0.0254	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0547	0.0547	1.4000e-004		0.0582
Energy	0.3299	2.9991	2.5192	0.0180		0.2279	0.2279		0.2279	0.2279		3,598.9015	3,598.9015	0.0690	0.0660	3,620.2880
Mobile	3.7996	5.0990	38.7921	0.0753	9.2746	0.0575	9.3321	2.4717	0.0537	2.5253		8,021.9145	8,021.9145	0.5796	0.4092	8,158.3304
<b>Total</b>	<b>8.1393</b>	<b>8.0983</b>	<b>41.3367</b>	<b>0.0933</b>	<b>9.2746</b>	<b>0.2855</b>	<b>9.5601</b>	<b>2.4717</b>	<b>0.2817</b>	<b>2.7534</b>		<b>11,620.8707</b>	<b>11,620.8707</b>	<b>0.6487</b>	<b>0.4751</b>	<b>11,778.6766</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/18/2027	3/23/2027	5	24	
2	Site Preparation	Site Preparation	3/24/2027	3/31/2027	5	6	
3	Grading	Grading	4/1/2027	4/15/2027	5	11	
4	Building Construction	Building Construction	4/15/2027	6/23/2028	5	312	
5	Paving	Paving	6/26/2028	7/27/2028	5	24	
6	Architectural Coating	Architectural Coating	7/28/2028	8/31/2028	5	24	

**Acres of Grading (Site Preparation Phase): 9**

**Acres of Grading (Grading Phase): 11**

**Acres of Paving: 0.75**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 250,200; Non-Residential Outdoor: 83,400; Striped Parking Area: 1,992 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Grading	Excavators	1	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	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	360.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	90.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	165.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	67.00	33.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Water Exposed Area

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0197	0.2782	8.1000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		86.2451	86.2451	2.3400e-003	2.3300e-003	86.9991
<b>Total</b>	<b>0.0703</b>	<b>2.2122</b>	<b>0.7665</b>	<b>9.4500e-003</b>	<b>0.3754</b>	<b>0.0166</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1177</b>		<b>1,030.4683</b>	<b>1,030.4683</b>	<b>0.0400</b>	<b>0.1521</b>	<b>1,076.7941</b>



Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0197	0.2782	8.1000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		86.2451	86.2451	2.3400e-003	2.3300e-003	86.9991
<b>Total</b>	<b>0.0703</b>	<b>2.2122</b>	<b>0.7665</b>	<b>9.4500e-003</b>	<b>0.3754</b>	<b>0.0166</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1177</b>		<b>1,030.4683</b>	<b>1,030.4683</b>	<b>0.0400</b>	<b>0.1521</b>	<b>1,076.7941</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0422	0.0237	0.3338	9.8000e-004	0.1369	5.8000e-004	0.1375	0.0363	5.3000e-004	0.0369		103.4941	103.4941	2.8100e-003	2.8000e-003	104.3990
<b>Total</b>	<b>0.0773</b>	<b>2.2161</b>	<b>0.8221</b>	<b>9.6200e-003</b>	<b>0.3983</b>	<b>0.0167</b>	<b>0.4149</b>	<b>0.1079</b>	<b>0.0159</b>	<b>0.1238</b>		<b>1,047.7173</b>	<b>1,047.7173</b>	<b>0.0405</b>	<b>0.1526</b>	<b>1,094.1939</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2027**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0422	0.0237	0.3338	9.8000e-004	0.1369	5.8000e-004	0.1375	0.0363	5.3000e-004	0.0369		103.4941	103.4941	2.8100e-003	2.8000e-003	104.3990
<b>Total</b>	<b>0.0773</b>	<b>2.2161</b>	<b>0.8221</b>	<b>9.6200e-003</b>	<b>0.3983</b>	<b>0.0167</b>	<b>0.4149</b>	<b>0.1079</b>	<b>0.0159</b>	<b>0.1238</b>		<b>1,047.7173</b>	<b>1,047.7173</b>	<b>0.0405</b>	<b>0.1526</b>	<b>1,094.1939</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>1.5227</b>	<b>15.3148</b>	<b>14.5402</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.6236</b>	<b>7.7062</b>	<b>3.4247</b>	<b>0.5737</b>	<b>3.9984</b>		<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0197	0.2782	8.1000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		86.2451	86.2451	2.3400e-003	2.3300e-003	86.9991
<b>Total</b>	<b>0.0703</b>	<b>2.2122</b>	<b>0.7665</b>	<b>9.4500e-003</b>	<b>0.3754</b>	<b>0.0166</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1177</b>		<b>1,030.468 3</b>	<b>1,030.468 3</b>	<b>0.0400</b>	<b>0.1521</b>	<b>1,076.794 1</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2027**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0351	2.1925	0.4883	8.6400e-003	0.2613	0.0161	0.2774	0.0715	0.0154	0.0869		944.2232	944.2232	0.0377	0.1498	989.7950
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0197	0.2782	8.1000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		86.2451	86.2451	2.3400e-003	2.3300e-003	86.9991
<b>Total</b>	<b>0.0703</b>	<b>2.2122</b>	<b>0.7665</b>	<b>9.4500e-003</b>	<b>0.3754</b>	<b>0.0166</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1177</b>		<b>1,030.468 3</b>	<b>1,030.468 3</b>	<b>0.0400</b>	<b>0.1521</b>	<b>1,076.794 1</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0365	1.5172	0.4530	5.7900e-003	0.1987	7.9200e-003	0.2067	0.0572	7.5700e-003	0.0648		622.2149	622.2149	0.0150	0.0921	650.0261
Worker	0.1571	0.0880	1.2426	3.6400e-003	0.5097	2.1600e-003	0.5118	0.1352	1.9800e-003	0.1372		385.2279	385.2279	0.0105	0.0104	388.5961
<b>Total</b>	<b>0.1936</b>	<b>1.6052</b>	<b>1.6956</b>	<b>9.4300e-003</b>	<b>0.7084</b>	<b>0.0101</b>	<b>0.7185</b>	<b>0.1924</b>	<b>9.5500e-003</b>	<b>0.2020</b>		<b>1,007.442 8</b>	<b>1,007.442 8</b>	<b>0.0255</b>	<b>0.1025</b>	<b>1,038.622 3</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0365	1.5172	0.4530	5.7900e-003	0.1987	7.9200e-003	0.2067	0.0572	7.5700e-003	0.0648		622.2149	622.2149	0.0150	0.0921	650.0261
Worker	0.1571	0.0880	1.2426	3.6400e-003	0.5097	2.1600e-003	0.5118	0.1352	1.9800e-003	0.1372		385.2279	385.2279	0.0105	0.0104	388.5961
<b>Total</b>	<b>0.1936</b>	<b>1.6052</b>	<b>1.6956</b>	<b>9.4300e-003</b>	<b>0.7084</b>	<b>0.0101</b>	<b>0.7185</b>	<b>0.1924</b>	<b>9.5500e-003</b>	<b>0.2020</b>		<b>1,007.442 8</b>	<b>1,007.442 8</b>	<b>0.0255</b>	<b>0.1025</b>	<b>1,038.622 3</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0354	1.4930	0.4464	5.6700e-003	0.1987	7.7500e-003	0.2065	0.0572	7.4100e-003	0.0646		609.4690	609.4690	0.0147	0.0903	636.7525
Worker	0.1487	0.0812	1.1857	3.5400e-003	0.5097	2.0200e-003	0.5117	0.1352	1.8600e-003	0.1371		377.3132	377.3132	9.6400e-003	9.9600e-003	380.5210
<b>Total</b>	<b>0.1841</b>	<b>1.5742</b>	<b>1.6321</b>	<b>9.2100e-003</b>	<b>0.7084</b>	<b>9.7700e-003</b>	<b>0.7182</b>	<b>0.1924</b>	<b>9.2700e-003</b>	<b>0.2017</b>		<b>986.7822</b>	<b>986.7822</b>	<b>0.0244</b>	<b>0.1003</b>	<b>1,017.273 4</b>



Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0354	1.4930	0.4464	5.6700e-003	0.1987	7.7500e-003	0.2065	0.0572	7.4100e-003	0.0646		609.4690	609.4690	0.0147	0.0903	636.7525
Worker	0.1487	0.0812	1.1857	3.5400e-003	0.5097	2.0200e-003	0.5117	0.1352	1.8600e-003	0.1371		377.3132	377.3132	9.6400e-003	9.9600e-003	380.5210
<b>Total</b>	<b>0.1841</b>	<b>1.5742</b>	<b>1.6321</b>	<b>9.2100e-003</b>	<b>0.7084</b>	<b>9.7700e-003</b>	<b>0.7182</b>	<b>0.1924</b>	<b>9.2700e-003</b>	<b>0.2017</b>		<b>986.7822</b>	<b>986.7822</b>	<b>0.0244</b>	<b>0.1003</b>	<b>1,017.273 4</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8197</b>	<b>7.5321</b>	<b>12.1778</b>	<b>0.0189</b>		<b>0.3524</b>	<b>0.3524</b>		<b>0.3259</b>	<b>0.3259</b>		<b>1,805.3926</b>	<b>1,805.3926</b>	<b>0.5673</b>		<b>1,819.5741</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0444	0.0242	0.3539	1.0600e-003	0.1521	6.0000e-004	0.1527	0.0404	5.6000e-004	0.0409		112.6308	112.6308	2.8800e-003	2.9700e-003	113.5883
<b>Total</b>	<b>0.0444</b>	<b>0.0242</b>	<b>0.3539</b>	<b>1.0600e-003</b>	<b>0.1521</b>	<b>6.0000e-004</b>	<b>0.1527</b>	<b>0.0404</b>	<b>5.6000e-004</b>	<b>0.0409</b>		<b>112.6308</b>	<b>112.6308</b>	<b>2.8800e-003</b>	<b>2.9700e-003</b>	<b>113.5883</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2194</b>	<b>0.9509</b>	<b>13.5323</b>	<b>0.0189</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0293</b>	<b>0.0293</b>	<b>0.0000</b>	<b>1,805.3926</b>	<b>1,805.3926</b>	<b>0.5673</b>		<b>1,819.5741</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0444	0.0242	0.3539	1.0600e-003	0.1521	6.0000e-004	0.1527	0.0404	5.6000e-004	0.0409		112.6308	112.6308	2.8800e-003	2.9700e-003	113.5883
<b>Total</b>	<b>0.0444</b>	<b>0.0242</b>	<b>0.3539</b>	<b>1.0600e-003</b>	<b>0.1521</b>	<b>6.0000e-004</b>	<b>0.1527</b>	<b>0.0404</b>	<b>5.6000e-004</b>	<b>0.0409</b>		<b>112.6308</b>	<b>112.6308</b>	<b>2.8800e-003</b>	<b>2.9700e-003</b>	<b>113.5883</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Archit. Coating	64.8112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>64.9821</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0289	0.0158	0.2301	6.9000e-004	0.0989	3.9000e-004	0.0993	0.0262	3.6000e-004	0.0266		73.2100	73.2100	1.8700e-003	1.9300e-003	73.8324
<b>Total</b>	<b>0.0289</b>	<b>0.0158</b>	<b>0.2301</b>	<b>6.9000e-004</b>	<b>0.0989</b>	<b>3.9000e-004</b>	<b>0.0993</b>	<b>0.0262</b>	<b>3.6000e-004</b>	<b>0.0266</b>		<b>73.2100</b>	<b>73.2100</b>	<b>1.8700e-003</b>	<b>1.9300e-003</b>	<b>73.8324</b>

Innovation Park CNU Phase 2E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2028**

**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	64.8112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>64.8409</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0289	0.0158	0.2301	6.9000e-004	0.0989	3.9000e-004	0.0993	0.0262	3.6000e-004	0.0266		73.2100	73.2100	1.8700e-003	1.9300e-003	73.8324
<b>Total</b>	<b>0.0289</b>	<b>0.0158</b>	<b>0.2301</b>	<b>6.9000e-004</b>	<b>0.0989</b>	<b>3.9000e-004</b>	<b>0.0993</b>	<b>0.0262</b>	<b>3.6000e-004</b>	<b>0.0266</b>		<b>73.2100</b>	<b>73.2100</b>	<b>1.8700e-003</b>	<b>1.9300e-003</b>	<b>73.8324</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2F**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4yr)	2,500.00	Student	10.55	216,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2029
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - University Bldg 2

Land Use - University Building 2

Construction Phase - Schedule adjusted

Trips and VMT - 10 truck/day for demo, site prep, grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMP

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	10.00	7.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	300.00	318.00
tblConstructionPhase	NumDays	20.00	21.00

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	20.00	21.00
tblLandUse	LandUseSquareFeet	459,493.67	216,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	130.00
tblTripsAndVMT	HaulingTripNumber	0.00	70.00
tblTripsAndVMT	HaulingTripNumber	0.00	210.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	4.5765	43.6312	45.1959	0.1068	19.9681	1.6810	21.0660	10.1865	1.5582	11.1968	0.0000	10,482.6738	10,482.6738	2.6017	0.2148	10,611.7321
2029	95.5572	14.1317	18.0952	0.0375	0.9030	0.5382	1.4412	0.2443	0.5063	0.7506	0.0000	3,693.0306	3,693.0306	0.7157	0.1070	3,740.6365
<b>Maximum</b>	<b>95.5572</b>	<b>43.6312</b>	<b>45.1959</b>	<b>0.1068</b>	<b>19.9681</b>	<b>1.6810</b>	<b>21.0660</b>	<b>10.1865</b>	<b>1.5582</b>	<b>11.1968</b>	<b>0.0000</b>	<b>10,482.6738</b>	<b>10,482.6738</b>	<b>2.6017</b>	<b>0.2148</b>	<b>10,611.7321</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					
2028	1.3973	8.7534	53.2395	0.1068	9.1568	0.1649	9.2299	4.6301	0.1638	4.7027	0.0000	10,482.6738	10,482.6738	2.6017	0.2148	10,611.7321
2029	95.4160	3.8968	19.4708	0.0375	0.9030	0.0514	0.9544	0.2443	0.0509	0.2951	0.0000	3,693.0306	3,693.0306	0.7157	0.1070	3,740.6365
<b>Maximum</b>	<b>95.4160</b>	<b>8.7534</b>	<b>53.2395</b>	<b>0.1068</b>	<b>9.1568</b>	<b>0.1649</b>	<b>9.2299</b>	<b>4.6301</b>	<b>0.1638</b>	<b>4.7027</b>	<b>0.0000</b>	<b>10,482.6738</b>	<b>10,482.6738</b>	<b>2.6017</b>	<b>0.2148</b>	<b>10,611.7321</b>

## Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.32	78.10	-14.88	0.00	51.80	90.25	54.75	53.27	89.60	58.17	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.1944	2.3100e-003	0.2546	2.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004		0.5471	0.5471	1.4200e-003		0.5827
Energy	0.1658	1.5073	1.2661	9.0400e-003		0.1146	0.1146		0.1146	0.1146		1,808.7607	1,808.7607	0.0347	0.0332	1,819.5092
Mobile	6.9789	8.5770	66.4752	0.1202	15.0476	0.0908	15.1384	4.0098	0.0848	4.0946		12,280.9914	12,280.9914	1.0239	0.7000	12,515.1836
<b>Total</b>	<b>12.3391</b>	<b>10.0866</b>	<b>67.9959</b>	<b>0.1293</b>	<b>15.0476</b>	<b>0.2063</b>	<b>15.2539</b>	<b>4.0098</b>	<b>0.2003</b>	<b>4.2101</b>		<b>14,090.2992</b>	<b>14,090.2992</b>	<b>1.0600</b>	<b>0.7331</b>	<b>14,335.2755</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	5.1944	2.3100e-003	0.2546	2.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004		0.5471	0.5471	1.4200e-003		0.5827
Energy	0.1658	1.5073	1.2661	9.0400e-003		0.1146	0.1146		0.1146	0.1146		1,808.7607	1,808.7607	0.0347	0.0332	1,819.5092
Mobile	6.9789	8.5770	66.4752	0.1202	15.0476	0.0908	15.1384	4.0098	0.0848	4.0946		12,280.9914	12,280.9914	1.0239	0.7000	12,515.1836
<b>Total</b>	<b>12.3391</b>	<b>10.0866</b>	<b>67.9959</b>	<b>0.1293</b>	<b>15.0476</b>	<b>0.2063</b>	<b>15.2539</b>	<b>4.0098</b>	<b>0.2003</b>	<b>4.2101</b>		<b>14,090.2992</b>	<b>14,090.2992</b>	<b>1.0600</b>	<b>0.7331</b>	<b>14,335.2755</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/18/2028	3/7/2028	5	13	
2	Site Preparation	Site Preparation	3/8/2028	3/16/2028	5	7	
3	Grading	Grading	3/17/2028	4/14/2028	5	20	
4	Building Construction	Building Construction	4/14/2028	7/3/2029	5	318	
5	Paving	Paving	7/5/2029	8/2/2029	5	21	
6	Architectural Coating	Architectural Coating	8/3/2029	8/31/2029	5	21	

**Acres of Grading (Site Preparation Phase): 10.5**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 324,000; Non-Residential Outdoor: 108,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	130.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	70.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	210.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	91.00	35.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0229	1.4292	0.3260	5.6300e-003	0.1742	0.0105	0.1847	0.0477	0.0100	0.0577		615.6291	615.6291	0.0247	0.0977	645.3464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0182	0.2655	7.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		84.4731	84.4731	2.1600e-003	2.2300e-003	85.1913
<b>Total</b>	<b>0.0562</b>	<b>1.4474</b>	<b>0.5914</b>	<b>6.4200e-003</b>	<b>0.2883</b>	<b>0.0109</b>	<b>0.2993</b>	<b>0.0780</b>	<b>0.0105</b>	<b>0.0884</b>		<b>700.1022</b>	<b>700.1022</b>	<b>0.0269</b>	<b>0.0999</b>	<b>730.5377</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0229	1.4292	0.3260	5.6300e-003	0.1742	0.0105	0.1847	0.0477	0.0100	0.0577		615.6291	615.6291	0.0247	0.0977	645.3464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0182	0.2655	7.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		84.4731	84.4731	2.1600e-003	2.2300e-003	85.1913
<b>Total</b>	<b>0.0562</b>	<b>1.4474</b>	<b>0.5914</b>	<b>6.4200e-003</b>	<b>0.2883</b>	<b>0.0109</b>	<b>0.2993</b>	<b>0.0780</b>	<b>0.0105</b>	<b>0.0884</b>		<b>700.1022</b>	<b>700.1022</b>	<b>0.0269</b>	<b>0.0999</b>	<b>730.5377</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0229	1.4292	0.3260	5.6300e-003	0.1742	0.0105	0.1847	0.0477	0.0100	0.0577		615.6291	615.6291	0.0247	0.0977	645.3464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0400	0.0218	0.3186	9.5000e-004	0.1369	5.4000e-004	0.1375	0.0363	5.0000e-004	0.0368		101.3677	101.3677	2.5900e-003	2.6700e-003	102.2295
<b>Total</b>	<b>0.0628</b>	<b>1.4510</b>	<b>0.6445</b>	<b>6.5800e-003</b>	<b>0.3111</b>	<b>0.0110</b>	<b>0.3222</b>	<b>0.0840</b>	<b>0.0105</b>	<b>0.0945</b>		<b>716.9968</b>	<b>716.9968</b>	<b>0.0273</b>	<b>0.1003</b>	<b>747.5759</b>



Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2028**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0229	1.4292	0.3260	5.6300e-003	0.1742	0.0105	0.1847	0.0477	0.0100	0.0577		615.6291	615.6291	0.0247	0.0977	645.3464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0400	0.0218	0.3186	9.5000e-004	0.1369	5.4000e-004	0.1375	0.0363	5.0000e-004	0.0368		101.3677	101.3677	2.5900e-003	2.6700e-003	102.2295
<b>Total</b>	<b>0.0628</b>	<b>1.4510</b>	<b>0.6445</b>	<b>6.5800e-003</b>	<b>0.3111</b>	<b>0.0110</b>	<b>0.3222</b>	<b>0.0840</b>	<b>0.0105</b>	<b>0.0945</b>		<b>716.9968</b>	<b>716.9968</b>	<b>0.0273</b>	<b>0.1003</b>	<b>747.5759</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**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	0.0240	1.5007	0.3422	5.9100e-003	0.1829	0.0110	0.1939	0.0501	0.0105	0.0606		646.4106	646.4106	0.0259	0.1025	677.6137
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0444	0.0242	0.3539	1.0600e-003	0.1521	6.0000e-004	0.1527	0.0404	5.6000e-004	0.0409		112.6308	112.6308	2.8800e-003	2.9700e-003	113.5883
<b>Total</b>	<b>0.0684</b>	<b>1.5249</b>	<b>0.6962</b>	<b>6.9700e-003</b>	<b>0.3351</b>	<b>0.0116</b>	<b>0.3467</b>	<b>0.0904</b>	<b>0.0111</b>	<b>0.1015</b>		<b>759.0414</b>	<b>759.0414</b>	<b>0.0288</b>	<b>0.1055</b>	<b>791.2021</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2028**

**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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>4.1416</b>	<b>0.1015</b>	<b>4.2432</b>	<b>1.6442</b>	<b>0.1015</b>	<b>1.7457</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**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	0.0240	1.5007	0.3422	5.9100e-003	0.1829	0.0110	0.1939	0.0501	0.0105	0.0606		646.4106	646.4106	0.0259	0.1025	677.6137
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0444	0.0242	0.3539	1.0600e-003	0.1521	6.0000e-004	0.1527	0.0404	5.6000e-004	0.0409		112.6308	112.6308	2.8800e-003	2.9700e-003	113.5883
<b>Total</b>	<b>0.0684</b>	<b>1.5249</b>	<b>0.6962</b>	<b>6.9700e-003</b>	<b>0.3351</b>	<b>0.0116</b>	<b>0.3467</b>	<b>0.0904</b>	<b>0.0111</b>	<b>0.1015</b>		<b>759.0414</b>	<b>759.0414</b>	<b>0.0288</b>	<b>0.1055</b>	<b>791.2021</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0375	1.5835	0.4735	6.0200e-003	0.2108	8.2200e-003	0.2190	0.0607	7.8600e-003	0.0685		646.4065	646.4065	0.0156	0.0958	675.3435
Worker	0.2020	0.1102	1.6104	4.8100e-003	0.6922	2.7500e-003	0.6950	0.1836	2.5300e-003	0.1862		512.4701	512.4701	0.0131	0.0135	516.8270
<b>Total</b>	<b>0.2395</b>	<b>1.6938</b>	<b>2.0839</b>	<b>0.0108</b>	<b>0.9030</b>	<b>0.0110</b>	<b>0.9140</b>	<b>0.2443</b>	<b>0.0104</b>	<b>0.2547</b>		<b>1,158.876 6</b>	<b>1,158.876 6</b>	<b>0.0287</b>	<b>0.1093</b>	<b>1,192.170 5</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0375	1.5835	0.4735	6.0200e-003	0.2108	8.2200e-003	0.2190	0.0607	7.8600e-003	0.0685		646.4065	646.4065	0.0156	0.0958	675.3435
Worker	0.2020	0.1102	1.6104	4.8100e-003	0.6922	2.7500e-003	0.6950	0.1836	2.5300e-003	0.1862		512.4701	512.4701	0.0131	0.0135	516.8270
<b>Total</b>	<b>0.2395</b>	<b>1.6938</b>	<b>2.0839</b>	<b>0.0108</b>	<b>0.9030</b>	<b>0.0110</b>	<b>0.9140</b>	<b>0.2443</b>	<b>0.0104</b>	<b>0.2547</b>		<b>1,158.876 6</b>	<b>1,158.876 6</b>	<b>0.0287</b>	<b>0.1093</b>	<b>1,192.170 5</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0364	1.5597	0.4674	5.9000e-003	0.2107	8.0400e-003	0.2188	0.0607	7.7000e-003	0.0683		633.7540	633.7540	0.0154	0.0941	662.1639
Worker	0.1909	0.1023	1.5432	4.6800e-003	0.6922	2.5800e-003	0.6948	0.1836	2.3700e-003	0.1860		502.8022	502.8022	0.0121	0.0130	506.9745
<b>Total</b>	<b>0.2273</b>	<b>1.6621</b>	<b>2.0105</b>	<b>0.0106</b>	<b>0.9030</b>	<b>0.0106</b>	<b>0.9136</b>	<b>0.2443</b>	<b>0.0101</b>	<b>0.2543</b>		<b>1,136.556 2</b>	<b>1,136.556 2</b>	<b>0.0275</b>	<b>0.1070</b>	<b>1,169.138 4</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0364	1.5597	0.4674	5.9000e-003	0.2107	8.0400e-003	0.2188	0.0607	7.7000e-003	0.0683		633.7540	633.7540	0.0154	0.0941	662.1639
Worker	0.1909	0.1023	1.5432	4.6800e-003	0.6922	2.5800e-003	0.6948	0.1836	2.3700e-003	0.1860		502.8022	502.8022	0.0121	0.0130	506.9745
<b>Total</b>	<b>0.2273</b>	<b>1.6621</b>	<b>2.0105</b>	<b>0.0106</b>	<b>0.9030</b>	<b>0.0106</b>	<b>0.9136</b>	<b>0.2443</b>	<b>0.0101</b>	<b>0.2543</b>		<b>1,136.556 2</b>	<b>1,136.556 2</b>	<b>0.0275</b>	<b>0.1070</b>	<b>1,169.138 4</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0315</b>	<b>0.0169</b>	<b>0.2544</b>	<b>7.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>82.8795</b>	<b>82.8795</b>	<b>2.0000e-003</b>	<b>2.1400e-003</b>	<b>83.5672</b>



Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0315</b>	<b>0.0169</b>	<b>0.2544</b>	<b>7.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>82.8795</b>	<b>82.8795</b>	<b>2.0000e-003</b>	<b>2.1400e-003</b>	<b>83.5672</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	95.3486					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>95.5194</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0202	0.3052	9.3000e-004	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		99.4554	99.4554	2.4000e-003	2.5700e-003	100.2807
<b>Total</b>	<b>0.0378</b>	<b>0.0202</b>	<b>0.3052</b>	<b>9.3000e-004</b>	<b>0.1369</b>	<b>5.1000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.7000e-004</b>	<b>0.0368</b>		<b>99.4554</b>	<b>99.4554</b>	<b>2.4000e-003</b>	<b>2.5700e-003</b>	<b>100.2807</b>

Innovation Park CNU Phase 2F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	95.3486					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>95.3783</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0202	0.3052	9.3000e-004	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		99.4554	99.4554	2.4000e-003	2.5700e-003	100.2807
<b>Total</b>	<b>0.0378</b>	<b>0.0202</b>	<b>0.3052</b>	<b>9.3000e-004</b>	<b>0.1369</b>	<b>5.1000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.7000e-004</b>	<b>0.0368</b>		<b>99.4554</b>	<b>99.4554</b>	<b>2.4000e-003</b>	<b>2.5700e-003</b>	<b>100.2807</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3A**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	760.00	Space	6.84	228,000.00	0
Strip Mall	29.00	1000sqft	0.67	29,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2030
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Retail/Parking building 2

Land Use - Retail + Parking

Construction Phase - Schedule adjusted

Trips and VMT - 20 truck/ day for demo, site prep, grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	230.00	281.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	25.00
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LandUseSquareFeet	304,000.00	228,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	HaulingTripNumber	0.00	420.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2029	3.2302	32.5879	33.8729	0.0809	20.1423	1.1847	21.2501	10.2341	1.1019	11.2541	0.0000	8,058.8296	8,058.8296	1.6134	0.3211	8,194.8640
2030	13.4618	9.8905	18.4272	0.0432	1.0516	0.3310	1.2120	0.2846	0.3310	0.4444	0.0000	4,214.4386	4,214.4386	0.1474	0.1254	4,255.4911
<b>Maximum</b>	<b>13.4618</b>	<b>32.5879</b>	<b>33.8729</b>	<b>0.0809</b>	<b>20.1423</b>	<b>1.1847</b>	<b>21.2501</b>	<b>10.2341</b>	<b>1.1019</b>	<b>11.2541</b>	<b>0.0000</b>	<b>8,058.8296</b>	<b>8,058.8296</b>	<b>1.6134</b>	<b>0.3211</b>	<b>8,194.8640</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					
2029	1.0312	8.6118	38.4610	0.0809	9.3309	0.1228	9.4140	4.6778	0.1212	4.7600	0.0000	8,058.8295	8,058.8295	1.6134	0.3211	8,194.8640
2030	13.3608	4.1906	19.7305	0.0432	1.0516	0.0530	1.1046	0.2846	0.0524	0.3370	0.0000	4,214.4386	4,214.4386	0.1474	0.1254	4,255.4911
<b>Maximum</b>	<b>13.3608</b>	<b>8.6118</b>	<b>38.4610</b>	<b>0.0809</b>	<b>9.3309</b>	<b>0.1228</b>	<b>9.4140</b>	<b>4.6778</b>	<b>0.1212</b>	<b>4.7600</b>	<b>0.0000</b>	<b>8,058.8295</b>	<b>8,058.8295</b>	<b>1.6134</b>	<b>0.3211</b>	<b>8,194.8640</b>

## Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	13.78	69.86	-11.26	0.00	51.01	88.40	53.17	52.82	87.89	56.43	0.00	0.00	0.00	0.00	0.00	0.00



Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7997	7.2000e-004	0.0802	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1727	0.1727	4.5000e-004		0.1838
Energy	4.6000e-003	0.0418	0.0351	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.1950	50.1950	9.6000e-004	9.2000e-004	50.4933
Mobile	1.9111	2.1058	16.8940	0.0265	3.3296	0.0205	3.3501	0.8872	0.0191	0.9063		2,854.573 2	2,854.573 2	0.2642	0.1735	2,912.876 2
<b>Total</b>	<b>2.7154</b>	<b>2.1483</b>	<b>17.0093</b>	<b>0.0268</b>	<b>3.3296</b>	<b>0.0240</b>	<b>3.3535</b>	<b>0.8872</b>	<b>0.0226</b>	<b>0.9098</b>		<b>2,904.940 9</b>	<b>2,904.940 9</b>	<b>0.2657</b>	<b>0.1744</b>	<b>2,963.553 3</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	0.7997	7.2000e-004	0.0802	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1727	0.1727	4.5000e-004		0.1838
Energy	4.6000e-003	0.0418	0.0351	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.1950	50.1950	9.6000e-004	9.2000e-004	50.4933
Mobile	1.9111	2.1058	16.8940	0.0265	3.3296	0.0205	3.3501	0.8872	0.0191	0.9063		2,854.573 2	2,854.573 2	0.2642	0.1735	2,912.876 2
<b>Total</b>	<b>2.7154</b>	<b>2.1483</b>	<b>17.0093</b>	<b>0.0268</b>	<b>3.3296</b>	<b>0.0240</b>	<b>3.3535</b>	<b>0.8872</b>	<b>0.0226</b>	<b>0.9098</b>		<b>2,904.940 9</b>	<b>2,904.940 9</b>	<b>0.2657</b>	<b>0.1744</b>	<b>2,963.553 3</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/19/2029	4/13/2029	5	20	
2	Site Preparation	Site Preparation	4/16/2029	4/27/2029	5	10	
3	Grading	Grading	4/30/2029	5/28/2029	5	21	
4	Building Construction	Building Construction	5/28/2029	6/24/2030	5	281	
5	Paving	Paving	6/25/2030	7/26/2030	5	24	
6	Architectural Coating	Architectural Coating	7/29/2030	8/30/2030	5	25	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 21**

**Acres of Paving: 6.84**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 43,500; Non-Residential Outdoor: 14,500; Striped Parking Area: 13,680 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	400.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	200.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	420.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	105.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2029**

**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	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0448	2.7968	0.6523	0.0110	0.3483	0.0205	0.3689	0.0954	0.0196	0.1150		1,205.1094	1,205.1094	0.0486	0.1912	1,263.2909
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0762</b>	<b>2.8137</b>	<b>0.9067</b>	<b>0.0118</b>	<b>0.4624</b>	<b>0.0210</b>	<b>0.4834</b>	<b>0.1256</b>	<b>0.0200</b>	<b>0.1457</b>		<b>1,287.9888</b>	<b>1,287.9888</b>	<b>0.0506</b>	<b>0.1933</b>	<b>1,346.8581</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0448	2.7968	0.6523	0.0110	0.3483	0.0205	0.3689	0.0954	0.0196	0.1150		1,205.1094	1,205.1094	0.0486	0.1912	1,263.2909
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0762</b>	<b>2.8137</b>	<b>0.9067</b>	<b>0.0118</b>	<b>0.4624</b>	<b>0.0210</b>	<b>0.4834</b>	<b>0.1256</b>	<b>0.0200</b>	<b>0.1457</b>		<b>1,287.9888</b>	<b>1,287.9888</b>	<b>0.0506</b>	<b>0.1933</b>	<b>1,346.8581</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0448	2.7968	0.6523	0.0110	0.3483	0.0205	0.3689	0.0954	0.0196	0.1150		1,205.1094	1,205.1094	0.0486	0.1912	1,263.2909
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0202	0.3052	9.3000e-004	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		99.4554	99.4554	2.4000e-003	2.5700e-003	100.2807
<b>Total</b>	<b>0.0825</b>	<b>2.8171</b>	<b>0.9575</b>	<b>0.0120</b>	<b>0.4853</b>	<b>0.0210</b>	<b>0.5063</b>	<b>0.1317</b>	<b>0.0201</b>	<b>0.1518</b>		<b>1,304.5647</b>	<b>1,304.5647</b>	<b>0.0510</b>	<b>0.1937</b>	<b>1,363.5716</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2029**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0448	2.7968	0.6523	0.0110	0.3483	0.0205	0.3689	0.0954	0.0196	0.1150		1,205.1094	1,205.1094	0.0486	0.1912	1,263.2909
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0202	0.3052	9.3000e-004	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		99.4554	99.4554	2.4000e-003	2.5700e-003	100.2807
<b>Total</b>	<b>0.0825</b>	<b>2.8171</b>	<b>0.9575</b>	<b>0.0120</b>	<b>0.4853</b>	<b>0.0210</b>	<b>0.5063</b>	<b>0.1317</b>	<b>0.0201</b>	<b>0.1518</b>		<b>1,304.5647</b>	<b>1,304.5647</b>	<b>0.0510</b>	<b>0.1937</b>	<b>1,363.5716</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2029**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>1.5227</b>	<b>15.3148</b>	<b>14.5402</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.6236</b>	<b>7.7062</b>	<b>3.4247</b>	<b>0.5737</b>	<b>3.9984</b>		<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0448	2.7968	0.6523	0.0110	0.3483	0.0205	0.3689	0.0954	0.0196	0.1150		1,205.109 4	1,205.109 4	0.0486	0.1912	1,263.290 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0762</b>	<b>2.8137</b>	<b>0.9067</b>	<b>0.0118</b>	<b>0.4624</b>	<b>0.0210</b>	<b>0.4834</b>	<b>0.1256</b>	<b>0.0200</b>	<b>0.1457</b>		<b>1,287.988 8</b>	<b>1,287.988 8</b>	<b>0.0506</b>	<b>0.1933</b>	<b>1,346.858 1</b>



Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2029**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0448	2.7968	0.6523	0.0110	0.3483	0.0205	0.3689	0.0954	0.0196	0.1150		1,205.109 4	1,205.109 4	0.0486	0.1912	1,263.290 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0762</b>	<b>2.8137</b>	<b>0.9067</b>	<b>0.0118</b>	<b>0.4624</b>	<b>0.0210</b>	<b>0.4834</b>	<b>0.1256</b>	<b>0.0200</b>	<b>0.1457</b>		<b>1,287.988 8</b>	<b>1,287.988 8</b>	<b>0.0506</b>	<b>0.1933</b>	<b>1,346.858 1</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0436	1.8717	0.5609	7.0800e-003	0.2529	9.6500e-003	0.2626	0.0728	9.2300e-003	0.0820		760.5048	760.5048	0.0184	0.1129	794.5967
Worker	0.2203	0.1181	1.7806	5.4000e-003	0.7987	2.9700e-003	0.8017	0.2119	2.7400e-003	0.2146		580.1564	580.1564	0.0140	0.0150	584.9706
<b>Total</b>	<b>0.2639</b>	<b>1.9898</b>	<b>2.3414</b>	<b>0.0125</b>	<b>1.0516</b>	<b>0.0126</b>	<b>1.0643</b>	<b>0.2847</b>	<b>0.0120</b>	<b>0.2966</b>		<b>1,340.661 2</b>	<b>1,340.661 2</b>	<b>0.0324</b>	<b>0.1278</b>	<b>1,379.567 3</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0436	1.8717	0.5609	7.0800e-003	0.2529	9.6500e-003	0.2626	0.0728	9.2300e-003	0.0820		760.5048	760.5048	0.0184	0.1129	794.5967
Worker	0.2203	0.1181	1.7806	5.4000e-003	0.7987	2.9700e-003	0.8017	0.2119	2.7400e-003	0.2146		580.1564	580.1564	0.0140	0.0150	584.9706
<b>Total</b>	<b>0.2639</b>	<b>1.9898</b>	<b>2.3414</b>	<b>0.0125</b>	<b>1.0516</b>	<b>0.0126</b>	<b>1.0643</b>	<b>0.2847</b>	<b>0.0120</b>	<b>0.2966</b>		<b>1,340.661 2</b>	<b>1,340.661 2</b>	<b>0.0324</b>	<b>0.1278</b>	<b>1,379.567 3</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0424	1.8454	0.5550	6.9500e-003	0.2529	9.4500e-003	0.2623	0.0728	9.0400e-003	0.0818		746.5592	746.5592	0.0181	0.1109	780.0704
Worker	0.2081	0.1104	1.7152	5.2700e-003	0.7987	2.7800e-003	0.8015	0.2119	2.5600e-003	0.2144		570.3327	570.3327	0.0130	0.0145	574.9678
<b>Total</b>	<b>0.2505</b>	<b>1.9559</b>	<b>2.2702</b>	<b>0.0122</b>	<b>1.0516</b>	<b>0.0122</b>	<b>1.0638</b>	<b>0.2846</b>	<b>0.0116</b>	<b>0.2962</b>		<b>1,316.8919</b>	<b>1,316.8919</b>	<b>0.0311</b>	<b>0.1254</b>	<b>1,355.0382</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0424	1.8454	0.5550	6.9500e-003	0.2529	9.4500e-003	0.2623	0.0728	9.0400e-003	0.0818		746.5592	746.5592	0.0181	0.1109	780.0704
Worker	0.2081	0.1104	1.7152	5.2700e-003	0.7987	2.7800e-003	0.8015	0.2119	2.5600e-003	0.2144		570.3327	570.3327	0.0130	0.0145	574.9678
<b>Total</b>	<b>0.2505</b>	<b>1.9559</b>	<b>2.2702</b>	<b>0.0122</b>	<b>1.0516</b>	<b>0.0122</b>	<b>1.0638</b>	<b>0.2846</b>	<b>0.0116</b>	<b>0.2962</b>		<b>1,316.8919</b>	<b>1,316.8919</b>	<b>0.0311</b>	<b>0.1254</b>	<b>1,355.0382</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0297</b>	<b>0.0158</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>81.4761</b>	<b>81.4761</b>	<b>1.8600e-003</b>	<b>2.0700e-003</b>	<b>82.1383</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0297</b>	<b>0.0158</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>81.4761</b>	<b>81.4761</b>	<b>1.8600e-003</b>	<b>2.0700e-003</b>	<b>82.1383</b>

Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	13.2895					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>13.4202</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0416	0.0221	0.3431	1.0500e-003	0.1598	5.6000e-004	0.1603	0.0424	5.1000e-004	0.0429		114.0665	114.0665	2.6000e-003	2.8900e-003	114.9936
<b>Total</b>	<b>0.0416</b>	<b>0.0221</b>	<b>0.3431</b>	<b>1.0500e-003</b>	<b>0.1598</b>	<b>5.6000e-004</b>	<b>0.1603</b>	<b>0.0424</b>	<b>5.1000e-004</b>	<b>0.0429</b>		<b>114.0665</b>	<b>114.0665</b>	<b>2.6000e-003</b>	<b>2.8900e-003</b>	<b>114.9936</b>



Innovation Park CNU Phase 3A - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	13.2895					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>13.3192</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0416	0.0221	0.3431	1.0500e-003	0.1598	5.6000e-004	0.1603	0.0424	5.1000e-004	0.0429		114.0665	114.0665	2.6000e-003	2.8900e-003	114.9936
<b>Total</b>	<b>0.0416</b>	<b>0.0221</b>	<b>0.3431</b>	<b>1.0500e-003</b>	<b>0.1598</b>	<b>5.6000e-004</b>	<b>0.1603</b>	<b>0.0424</b>	<b>5.1000e-004</b>	<b>0.0429</b>		<b>114.0665</b>	<b>114.0665</b>	<b>2.6000e-003</b>	<b>2.8900e-003</b>	<b>114.9936</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3B**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4yr)	1,000.00	Student	4.22	108,000.00	0
General Heavy Industry	54.00	1000sqft	1.24	54,000.00	0
Strip Mall	27.00	1000sqft	0.62	27,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2030
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - University BLDG 2

Land Use - University BLDG 2

Construction Phase - Schedule adjusted

Trips and VMT - 10 truck/day for demo, site prep. grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	230.00	306.00
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	20.00	27.00

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblLandUse	LandUseSquareFeet	183,797.47	108,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	HaulingTripNumber	0.00	160.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2029	3.1392	30.7610	32.9468	0.0725	19.9681	1.1718	21.0657	10.1864	1.0896	11.1966	0.0000	7,142.5570	7,142.5570	1.5821	0.1984	7,241.2274
2030	65.0505	9.3777	17.8244	0.0400	0.7724	0.3310	0.9295	0.2091	0.3310	0.3658	0.0000	3,866.8225	3,866.8225	0.1392	0.0925	3,897.8622
<b>Maximum</b>	<b>65.0505</b>	<b>30.7610</b>	<b>32.9468</b>	<b>0.0725</b>	<b>19.9681</b>	<b>1.1718</b>	<b>21.0657</b>	<b>10.1864</b>	<b>1.0896</b>	<b>11.1966</b>	<b>0.0000</b>	<b>7,142.5570</b>	<b>7,142.5570</b>	<b>1.5821</b>	<b>0.1984</b>	<b>7,241.2274</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					
2029	0.9401	6.7850	37.5349	0.0725	9.1568	0.1099	9.2296	4.6301	0.1089	4.7025	0.0000	7,142.5570	7,142.5570	1.5821	0.1984	7,241.2274
2030	64.9494	3.6778	19.1277	0.0400	0.7724	0.0498	0.8222	0.2091	0.0493	0.2584	0.0000	3,866.8225	3,866.8225	0.1392	0.0925	3,897.8622
<b>Maximum</b>	<b>64.9494</b>	<b>6.7850</b>	<b>37.5349</b>	<b>0.0725</b>	<b>9.1568</b>	<b>0.1099</b>	<b>9.2296</b>	<b>4.6301</b>	<b>0.1089</b>	<b>4.7025</b>	<b>0.0000</b>	<b>7,142.5570</b>	<b>7,142.5570</b>	<b>1.5821</b>	<b>0.1984</b>	<b>7,241.2274</b>

## Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.37	73.93	-11.60	0.00	52.13	89.37	54.30	53.45	88.86	57.09	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.5347	9.9000e-004	0.1098	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2366	0.2366	6.1000e-004		0.2518
Energy	0.1439	1.3085	1.0992	7.8500e-003		0.0995	0.0995		0.0995	0.0995		1,570.2208	1,570.2208	0.0301	0.0288	1,579.5518
Mobile	5.1947	6.2425	49.5579	0.0871	11.1381	0.0647	11.2029	2.9678	0.0604	3.0282		9,381.9539	9,381.9539	0.7575	0.5166	9,554.8274
<b>Total</b>	<b>9.8733</b>	<b>7.5520</b>	<b>50.7669</b>	<b>0.0949</b>	<b>11.1381</b>	<b>0.1646</b>	<b>11.3027</b>	<b>2.9678</b>	<b>0.1602</b>	<b>3.1280</b>		<b>10,952.4113</b>	<b>10,952.4113</b>	<b>0.7883</b>	<b>0.5454</b>	<b>11,134.6311</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	4.5347	9.9000e-004	0.1098	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2366	0.2366	6.1000e-004		0.2518
Energy	0.1439	1.3085	1.0992	7.8500e-003		0.0995	0.0995		0.0995	0.0995		1,570.2208	1,570.2208	0.0301	0.0288	1,579.5518
Mobile	5.1947	6.2425	49.5579	0.0871	11.1381	0.0647	11.2029	2.9678	0.0604	3.0282		9,381.9539	9,381.9539	0.7575	0.5166	9,554.8274
<b>Total</b>	<b>9.8733</b>	<b>7.5520</b>	<b>50.7669</b>	<b>0.0949</b>	<b>11.1381</b>	<b>0.1646</b>	<b>11.3027</b>	<b>2.9678</b>	<b>0.1602</b>	<b>3.1280</b>		<b>10,952.4113</b>	<b>10,952.4113</b>	<b>0.7883</b>	<b>0.5454</b>	<b>11,134.6311</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/19/2029	3/9/2029	5	15	
2	Site Preparation	Site Preparation	3/12/2029	3/23/2029	5	10	
3	Grading	Grading	3/27/2029	4/16/2029	5	15	
4	Building Construction	Building Construction	4/16/2029	6/17/2030	5	306	
5	Paving	Paving	6/18/2030	7/24/2030	5	27	
6	Architectural Coating	Architectural Coating	7/25/2030	8/30/2030	5	27	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 15**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 283,500; Non-Residential Outdoor: 94,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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



Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	150.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	100.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	160.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	31.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2029**

**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	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0224	1.3984	0.3261	5.5100e-003	0.1742	0.0103	0.1844	0.0477	9.8200e-003	0.0575		602.5547	602.5547	0.0243	0.0956	631.6455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0539</b>	<b>1.4153</b>	<b>0.5805</b>	<b>6.2800e-003</b>	<b>0.2883</b>	<b>0.0107</b>	<b>0.2990</b>	<b>0.0779</b>	<b>0.0102</b>	<b>0.0882</b>		<b>685.4342</b>	<b>685.4342</b>	<b>0.0263</b>	<b>0.0977</b>	<b>715.2127</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0224	1.3984	0.3261	5.5100e-003	0.1742	0.0103	0.1844	0.0477	9.8200e-003	0.0575		602.5547	602.5547	0.0243	0.0956	631.6455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0539</b>	<b>1.4153</b>	<b>0.5805</b>	<b>6.2800e-003</b>	<b>0.2883</b>	<b>0.0107</b>	<b>0.2990</b>	<b>0.0779</b>	<b>0.0102</b>	<b>0.0882</b>		<b>685.4342</b>	<b>685.4342</b>	<b>0.0263</b>	<b>0.0977</b>	<b>715.2127</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0224	1.3984	0.3261	5.5100e-003	0.1742	0.0103	0.1844	0.0477	9.8200e-003	0.0575		602.5547	602.5547	0.0243	0.0956	631.6455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0202	0.3052	9.3000e-004	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		99.4554	99.4554	2.4000e-003	2.5700e-003	100.2807
<b>Total</b>	<b>0.0602</b>	<b>1.4186</b>	<b>0.6314</b>	<b>6.4400e-003</b>	<b>0.3111</b>	<b>0.0108</b>	<b>0.3219</b>	<b>0.0840</b>	<b>0.0103</b>	<b>0.0943</b>		<b>702.0101</b>	<b>702.0101</b>	<b>0.0267</b>	<b>0.0982</b>	<b>731.9261</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2029**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0224	1.3984	0.3261	5.5100e-003	0.1742	0.0103	0.1844	0.0477	9.8200e-003	0.0575		602.5547	602.5547	0.0243	0.0956	631.6455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0202	0.3052	9.3000e-004	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		99.4554	99.4554	2.4000e-003	2.5700e-003	100.2807
<b>Total</b>	<b>0.0602</b>	<b>1.4186</b>	<b>0.6314</b>	<b>6.4400e-003</b>	<b>0.3111</b>	<b>0.0108</b>	<b>0.3219</b>	<b>0.0840</b>	<b>0.0103</b>	<b>0.0943</b>		<b>702.0101</b>	<b>702.0101</b>	<b>0.0267</b>	<b>0.0982</b>	<b>731.9261</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2029**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>1.5227</b>	<b>15.3148</b>	<b>14.5402</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.6236</b>	<b>7.7062</b>	<b>3.4247</b>	<b>0.5737</b>	<b>3.9984</b>		<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0239	1.4916	0.3479	5.8800e-003	0.1858	0.0110	0.1967	0.0509	0.0105	0.0613		642.7250	642.7250	0.0259	0.1020	673.7551
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0554</b>	<b>1.5085</b>	<b>0.6023</b>	<b>6.6500e-003</b>	<b>0.2999</b>	<b>0.0114</b>	<b>0.3113</b>	<b>0.0811</b>	<b>0.0109</b>	<b>0.0920</b>		<b>725.6045</b>	<b>725.6045</b>	<b>0.0279</b>	<b>0.1041</b>	<b>757.3224</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2029**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0239	1.4916	0.3479	5.8800e-003	0.1858	0.0110	0.1967	0.0509	0.0105	0.0613		642.7250	642.7250	0.0259	0.1020	673.7551
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0315	0.0169	0.2544	7.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		82.8795	82.8795	2.0000e-003	2.1400e-003	83.5672
<b>Total</b>	<b>0.0554</b>	<b>1.5085</b>	<b>0.6023</b>	<b>6.6500e-003</b>	<b>0.2999</b>	<b>0.0114</b>	<b>0.3113</b>	<b>0.0811</b>	<b>0.0109</b>	<b>0.0920</b>		<b>725.6045</b>	<b>725.6045</b>	<b>0.0279</b>	<b>0.1041</b>	<b>757.3224</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0322	1.3815	0.4140	5.2200e-003	0.1867	7.1300e-003	0.1938	0.0537	6.8200e-003	0.0605		561.3250	561.3250	0.0136	0.0833	586.4881
Worker	0.1616	0.0866	1.3058	3.9600e-003	0.5857	2.1800e-003	0.5879	0.1554	2.0100e-003	0.1574		425.4480	425.4480	0.0103	0.0110	428.9784
<b>Total</b>	<b>0.1938</b>	<b>1.4681</b>	<b>1.7197</b>	<b>9.1800e-003</b>	<b>0.7724</b>	<b>9.3100e-003</b>	<b>0.7817</b>	<b>0.2091</b>	<b>8.8300e-003</b>	<b>0.2179</b>		<b>986.7730</b>	<b>986.7730</b>	<b>0.0239</b>	<b>0.0943</b>	<b>1,015.466 5</b>



Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0322	1.3815	0.4140	5.2200e-003	0.1867	7.1300e-003	0.1938	0.0537	6.8200e-003	0.0605		561.3250	561.3250	0.0136	0.0833	586.4881
Worker	0.1616	0.0866	1.3058	3.9600e-003	0.5857	2.1800e-003	0.5879	0.1554	2.0100e-003	0.1574		425.4480	425.4480	0.0103	0.0110	428.9784
<b>Total</b>	<b>0.1938</b>	<b>1.4681</b>	<b>1.7197</b>	<b>9.1800e-003</b>	<b>0.7724</b>	<b>9.3100e-003</b>	<b>0.7817</b>	<b>0.2091</b>	<b>8.8300e-003</b>	<b>0.2179</b>		<b>986.7730</b>	<b>986.7730</b>	<b>0.0239</b>	<b>0.0943</b>	<b>1,015.466 5</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0313	1.3621	0.4096	5.1300e-003	0.1867	6.9700e-003	0.1936	0.0537	6.6700e-003	0.0604		551.0318	551.0318	0.0134	0.0819	575.7662
Worker	0.1526	0.0810	1.2579	3.8700e-003	0.5857	2.0400e-003	0.5878	0.1554	1.8800e-003	0.1573		418.2439	418.2439	9.5300e-003	0.0106	421.6431
<b>Total</b>	<b>0.1839</b>	<b>1.4431</b>	<b>1.6675</b>	<b>9.0000e-003</b>	<b>0.7724</b>	<b>9.0100e-003</b>	<b>0.7814</b>	<b>0.2091</b>	<b>8.5500e-003</b>	<b>0.2176</b>		<b>969.2758</b>	<b>969.2758</b>	<b>0.0229</b>	<b>0.0925</b>	<b>997.4093</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0313	1.3621	0.4096	5.1300e-003	0.1867	6.9700e-003	0.1936	0.0537	6.6700e-003	0.0604		551.0318	551.0318	0.0134	0.0819	575.7662
Worker	0.1526	0.0810	1.2579	3.8700e-003	0.5857	2.0400e-003	0.5878	0.1554	1.8800e-003	0.1573		418.2439	418.2439	9.5300e-003	0.0106	421.6431
<b>Total</b>	<b>0.1839</b>	<b>1.4431</b>	<b>1.6675</b>	<b>9.0000e-003</b>	<b>0.7724</b>	<b>9.0100e-003</b>	<b>0.7814</b>	<b>0.2091</b>	<b>8.5500e-003</b>	<b>0.2176</b>		<b>969.2758</b>	<b>969.2758</b>	<b>0.0229</b>	<b>0.0925</b>	<b>997.4093</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0297</b>	<b>0.0158</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>81.4761</b>	<b>81.4761</b>	<b>1.8600e-003</b>	<b>2.0700e-003</b>	<b>82.1383</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0297</b>	<b>0.0158</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>81.4761</b>	<b>81.4761</b>	<b>1.8600e-003</b>	<b>2.0700e-003</b>	<b>82.1383</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	64.8900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>65.0208</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0297</b>	<b>0.0158</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>81.4761</b>	<b>81.4761</b>	<b>1.8600e-003</b>	<b>2.0700e-003</b>	<b>82.1383</b>

Innovation Park CNU Phase 3B - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	64.8900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>64.9197</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0297</b>	<b>0.0158</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>81.4761</b>	<b>81.4761</b>	<b>1.8600e-003</b>	<b>2.0700e-003</b>	<b>82.1383</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3C**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	48.00	1000sqft	1.10	48,000.00	0
Enclosed Parking Structure	127.00	Space	1.14	48,000.00	0
Apartments Mid Rise	250.00	Dwelling Unit	6.58	114,000.00	668

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2031
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - Dorm/Facility BLDG 2 Construction ONLY

Land Use - Residential buildings 2

Construction Phase - Adjusted Scheduled

Trips and VMT - 15 trucks/year for demo, site prep, and grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final



Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	230.00	307.00
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	20.00	26.00
tblLandUse	LandUseSquareFeet	50,800.00	48,000.00
tblLandUse	LandUseSquareFeet	250,000.00	114,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	225.00
tblTripsAndVMT	HaulingTripNumber	0.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	3.4602	19.8282	35.4266	0.0939	20.0552	0.4522	20.5073	10.2103	0.4515	10.6618	0.0000	9,224.533 2	9,224.533 2	0.3426	0.2833	9,317.520 4
2031	72.7097	9.9712	20.1185	0.0484	1.8960	0.3310	2.0587	0.5086	0.3310	0.6706	0.0000	4,786.935 3	4,786.935 3	0.1590	0.1381	4,832.055 6
<b>Maximum</b>	<b>72.7097</b>	<b>19.8282</b>	<b>35.4266</b>	<b>0.0939</b>	<b>20.0552</b>	<b>0.4522</b>	<b>20.5073</b>	<b>10.2103</b>	<b>0.4515</b>	<b>10.6618</b>	<b>0.0000</b>	<b>9,224.533 2</b>	<b>9,224.533 2</b>	<b>0.3426</b>	<b>0.2833</b>	<b>9,317.520 4</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					
2030	3.4602	19.8282	35.4266	0.0939	9.2438	0.4522	9.6960	4.6539	0.4515	5.1054	0.0000	9,224.533 2	9,224.533 2	0.3426	0.2833	9,317.520 4
2031	72.7097	9.9712	20.1185	0.0484	1.8960	0.3310	2.0587	0.5086	0.3310	0.6706	0.0000	4,786.935 3	4,786.935 3	0.1590	0.1381	4,832.055 6
<b>Maximum</b>	<b>72.7097</b>	<b>19.8282</b>	<b>35.4266</b>	<b>0.0939</b>	<b>9.2438</b>	<b>0.4522</b>	<b>9.6960</b>	<b>4.6539</b>	<b>0.4515</b>	<b>5.1054</b>	<b>0.0000</b>	<b>9,224.533 2</b>	<b>9,224.533 2</b>	<b>0.3426</b>	<b>0.2833</b>	<b>9,317.520 4</b>

## Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	49.25	0.00	47.91	51.84	0.00	49.03	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.6171	0.2373	20.5886	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	37.1764	37.1764	0.0355	0.0000	38.0634
Energy	0.0880	0.7617	0.3935	4.8000e-003		0.0608	0.0608		0.0608	0.0608		959.5802	959.5802	0.0184	0.0176	965.2825
Mobile	3.4636	4.5503	36.2853	0.0707	9.3848	0.0492	9.4341	2.5004	0.0460	2.5464		7,658.5772	7,658.5772	0.5408	0.3844	7,786.6512
<b>Total</b>	<b>8.1687</b>	<b>5.5493</b>	<b>57.2674</b>	<b>0.0766</b>	<b>9.3848</b>	<b>0.2244</b>	<b>9.6093</b>	<b>2.5004</b>	<b>0.2212</b>	<b>2.7216</b>	<b>0.0000</b>	<b>8,655.3338</b>	<b>8,655.3338</b>	<b>0.5946</b>	<b>0.4020</b>	<b>8,789.9971</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	4.6171	0.2373	20.5886	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	37.1764	37.1764	0.0355	0.0000	38.0634
Energy	0.0880	0.7617	0.3935	4.8000e-003		0.0608	0.0608		0.0608	0.0608		959.5802	959.5802	0.0184	0.0176	965.2825
Mobile	3.4636	4.5503	36.2853	0.0707	9.3848	0.0492	9.4341	2.5004	0.0460	2.5464		7,658.5772	7,658.5772	0.5408	0.3844	7,786.6512
<b>Total</b>	<b>8.1687</b>	<b>5.5493</b>	<b>57.2674</b>	<b>0.0766</b>	<b>9.3848</b>	<b>0.2244</b>	<b>9.6093</b>	<b>2.5004</b>	<b>0.2212</b>	<b>2.7216</b>	<b>0.0000</b>	<b>8,655.3338</b>	<b>8,655.3338</b>	<b>0.5946</b>	<b>0.4020</b>	<b>8,789.9971</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/18/2030	3/8/2030	5	15	
2	Site Preparation	Site Preparation	3/11/2030	3/22/2030	5	10	
3	Grading	Grading	3/25/2030	4/15/2030	5	16	
4	Building Construction	Building Construction	4/15/2030	6/17/2031	5	307	
5	Paving	Paving	6/18/2031	7/24/2031	5	27	
6	Architectural Coating	Architectural Coating	7/25/2031	8/28/2031	5	26	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 16**

**Acres of Paving: 1.14**

**Residential Indoor: 230,850; Residential Outdoor: 76,950; Non-Residential Indoor: 72,000; Non-Residential Outdoor: 24,000; Striped Parking Area: 2,880 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	225.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	150.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	216.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	43.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>		<b>0.3511</b>	<b>0.3511</b>		<b>0.3511</b>	<b>0.3511</b>		<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0328	2.0551	0.4893	8.1000e-003	0.2612	0.0151	0.2763	0.0715	0.0144	0.0859		885.9753	885.9753	0.0359	0.1406	928.7563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0626</b>	<b>2.0709</b>	<b>0.7344</b>	<b>8.8500e-003</b>	<b>0.3753</b>	<b>0.0155</b>	<b>0.3908</b>	<b>0.1018</b>	<b>0.0148</b>	<b>0.1165</b>		<b>967.4514</b>	<b>967.4514</b>	<b>0.0378</b>	<b>0.1426</b>	<b>1,010.8945</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>		<b>0.3511</b>	<b>0.3511</b>		<b>0.3511</b>	<b>0.3511</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0328	2.0551	0.4893	8.1000e-003	0.2612	0.0151	0.2763	0.0715	0.0144	0.0859		885.9753	885.9753	0.0359	0.1406	928.7563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0626</b>	<b>2.0709</b>	<b>0.7344</b>	<b>8.8500e-003</b>	<b>0.3753</b>	<b>0.0155</b>	<b>0.3908</b>	<b>0.1018</b>	<b>0.0148</b>	<b>0.1165</b>		<b>967.4514</b>	<b>967.4514</b>	<b>0.0378</b>	<b>0.1426</b>	<b>1,010.8945</b>



Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.6570</b>	<b>0.4367</b>	<b>20.0937</b>	<b>10.1025</b>	<b>0.4367</b>	<b>10.5391</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**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	0.0328	2.0551	0.4893	8.1000e-003	0.2612	0.0151	0.2763	0.0715	0.0144	0.0859		885.9753	885.9753	0.0359	0.1406	928.7563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0357	0.0189	0.2940	9.0000e-004	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		97.7713	97.7713	2.2300e-003	2.4800e-003	98.5659
<b>Total</b>	<b>0.0685</b>	<b>2.0740</b>	<b>0.7834</b>	<b>9.0000e-003</b>	<b>0.3981</b>	<b>0.0155</b>	<b>0.4137</b>	<b>0.1078</b>	<b>0.0149</b>	<b>0.1227</b>		<b>983.7466</b>	<b>983.7466</b>	<b>0.0382</b>	<b>0.1430</b>	<b>1,027.3222</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>8.8457</b>	<b>0.4367</b>	<b>9.2823</b>	<b>4.5461</b>	<b>0.4367</b>	<b>4.9828</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**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	0.0328	2.0551	0.4893	8.1000e-003	0.2612	0.0151	0.2763	0.0715	0.0144	0.0859		885.9753	885.9753	0.0359	0.1406	928.7563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0357	0.0189	0.2940	9.0000e-004	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		97.7713	97.7713	2.2300e-003	2.4800e-003	98.5659
<b>Total</b>	<b>0.0685</b>	<b>2.0740</b>	<b>0.7834</b>	<b>9.0000e-003</b>	<b>0.3981</b>	<b>0.0155</b>	<b>0.4137</b>	<b>0.1078</b>	<b>0.0149</b>	<b>0.1227</b>		<b>983.7466</b>	<b>983.7466</b>	<b>0.0382</b>	<b>0.1430</b>	<b>1,027.3222</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.720 1	3,439.720 1	0.1437		3,443.311 7
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>7.0826</b>	<b>0.2340</b>	<b>7.3166</b>	<b>3.4247</b>	<b>0.2340</b>	<b>3.6588</b>		<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**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	0.0328	2.0551	0.4893	8.1000e-003	0.2612	0.0151	0.2763	0.0715	0.0144	0.0859		885.9753	885.9753	0.0359	0.1406	928.7563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0626</b>	<b>2.0709</b>	<b>0.7344</b>	<b>8.8500e-003</b>	<b>0.3753</b>	<b>0.0155</b>	<b>0.3908</b>	<b>0.1018</b>	<b>0.0148</b>	<b>0.1165</b>		<b>967.4514</b>	<b>967.4514</b>	<b>0.0378</b>	<b>0.1426</b>	<b>1,010.894 5</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.720 1	3,439.720 1	0.1437		3,443.311 7
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>3.1872</b>	<b>0.2340</b>	<b>3.4212</b>	<b>1.5411</b>	<b>0.2340</b>	<b>1.7751</b>	<b>0.0000</b>	<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**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	0.0328	2.0551	0.4893	8.1000e-003	0.2612	0.0151	0.2763	0.0715	0.0144	0.0859		885.9753	885.9753	0.0359	0.1406	928.7563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0158	0.2450	7.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		81.4761	81.4761	1.8600e-003	2.0700e-003	82.1383
<b>Total</b>	<b>0.0626</b>	<b>2.0709</b>	<b>0.7344</b>	<b>8.8500e-003</b>	<b>0.3753</b>	<b>0.0155</b>	<b>0.3908</b>	<b>0.1018</b>	<b>0.0148</b>	<b>0.1165</b>		<b>967.4514</b>	<b>967.4514</b>	<b>0.0378</b>	<b>0.1426</b>	<b>1,010.894 5</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0424	1.8454	0.5550	6.9500e-003	0.2529	9.4500e-003	0.2623	0.0728	9.0400e-003	0.0818		746.5592	746.5592	0.0181	0.1109	780.0704
Worker	0.4281	0.2272	3.5285	0.0109	1.6431	5.7300e-003	1.6488	0.4359	5.2700e-003	0.4411		1,173.2557	1,173.2557	0.0267	0.0298	1,182.7909
<b>Total</b>	<b>0.4706</b>	<b>2.0726</b>	<b>4.0835</b>	<b>0.0178</b>	<b>1.8960</b>	<b>0.0152</b>	<b>1.9112</b>	<b>0.5086</b>	<b>0.0143</b>	<b>0.5229</b>		<b>1,919.8150</b>	<b>1,919.8150</b>	<b>0.0449</b>	<b>0.1407</b>	<b>1,962.8613</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0424	1.8454	0.5550	6.9500e-003	0.2529	9.4500e-003	0.2623	0.0728	9.0400e-003	0.0818		746.5592	746.5592	0.0181	0.1109	780.0704
Worker	0.4281	0.2272	3.5285	0.0109	1.6431	5.7300e-003	1.6488	0.4359	5.2700e-003	0.4411		1,173.2557	1,173.2557	0.0267	0.0298	1,182.7909
<b>Total</b>	<b>0.4706</b>	<b>2.0726</b>	<b>4.0835</b>	<b>0.0178</b>	<b>1.8960</b>	<b>0.0152</b>	<b>1.9112</b>	<b>0.5086</b>	<b>0.0143</b>	<b>0.5229</b>		<b>1,919.8150</b>	<b>1,919.8150</b>	<b>0.0449</b>	<b>0.1407</b>	<b>1,962.8613</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0414	1.8229	0.5508	6.8300e-003	0.2529	9.2700e-003	0.2621	0.0728	8.8700e-003	0.0816		734.0997	734.0997	0.0178	0.1092	767.0917
Worker	0.4040	0.2136	3.4108	0.0106	1.6431	5.3600e-003	1.6485	0.4359	4.9300e-003	0.4408		1,155.2889	1,155.2889	0.0249	0.0289	1,164.5110
<b>Total</b>	<b>0.4453</b>	<b>2.0365</b>	<b>3.9616</b>	<b>0.0175</b>	<b>1.8960</b>	<b>0.0146</b>	<b>1.9106</b>	<b>0.5086</b>	<b>0.0138</b>	<b>0.5224</b>		<b>1,889.3886</b>	<b>1,889.3886</b>	<b>0.0427</b>	<b>0.1381</b>	<b>1,931.6027</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0414	1.8229	0.5508	6.8300e-003	0.2529	9.2700e-003	0.2621	0.0728	8.8700e-003	0.0816		734.0997	734.0997	0.0178	0.1092	767.0917
Worker	0.4040	0.2136	3.4108	0.0106	1.6431	5.3600e-003	1.6485	0.4359	4.9300e-003	0.4408		1,155.2889	1,155.2889	0.0249	0.0289	1,164.5110
<b>Total</b>	<b>0.4453</b>	<b>2.0365</b>	<b>3.9616</b>	<b>0.0175</b>	<b>1.8960</b>	<b>0.0146</b>	<b>1.9106</b>	<b>0.5086</b>	<b>0.0138</b>	<b>0.5224</b>		<b>1,889.3886</b>	<b>1,889.3886</b>	<b>0.0427</b>	<b>0.1381</b>	<b>1,931.6027</b>



Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688
<b>Total</b>	<b>0.0281</b>	<b>0.0148</b>	<b>0.2369</b>	<b>7.4000e-004</b>	<b>0.1141</b>	<b>3.7000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.4000e-004</b>	<b>0.0306</b>		<b>80.2284</b>	<b>80.2284</b>	<b>1.7300e-003</b>	<b>2.0000e-003</b>	<b>80.8688</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688
<b>Total</b>	<b>0.0281</b>	<b>0.0148</b>	<b>0.2369</b>	<b>7.4000e-004</b>	<b>0.1141</b>	<b>3.7000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.4000e-004</b>	<b>0.0306</b>		<b>80.2284</b>	<b>80.2284</b>	<b>1.7300e-003</b>	<b>2.0000e-003</b>	<b>80.8688</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	72.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>72.6293</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0804	0.0425	0.6790	2.1100e-003	0.3271	1.0700e-003	0.3282	0.0868	9.8000e-004	0.0878		229.9881	229.9881	4.9600e-003	5.7400e-003	231.8240
<b>Total</b>	<b>0.0804</b>	<b>0.0425</b>	<b>0.6790</b>	<b>2.1100e-003</b>	<b>0.3271</b>	<b>1.0700e-003</b>	<b>0.3282</b>	<b>0.0868</b>	<b>9.8000e-004</b>	<b>0.0878</b>		<b>229.9881</b>	<b>229.9881</b>	<b>4.9600e-003</b>	<b>5.7400e-003</b>	<b>231.8240</b>

Innovation Park CNU Phase 3C - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	72.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>72.6293</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0804	0.0425	0.6790	2.1100e-003	0.3271	1.0700e-003	0.3282	0.0868	9.8000e-004	0.0878		229.9881	229.9881	4.9600e-003	5.7400e-003	231.8240
<b>Total</b>	<b>0.0804</b>	<b>0.0425</b>	<b>0.6790</b>	<b>2.1100e-003</b>	<b>0.3271</b>	<b>1.0700e-003</b>	<b>0.3282</b>	<b>0.0868</b>	<b>9.8000e-004</b>	<b>0.0878</b>		<b>229.9881</b>	<b>229.9881</b>	<b>4.9600e-003</b>	<b>5.7400e-003</b>	<b>231.8240</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3D**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Day-Care Center	15.00	1000sqft	0.34	15,000.00	0
Health Club	30.00	1000sqft	0.69	30,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2031
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Daycare and health club construction only

Land Use - Daycare and Health Club

Construction Phase - Adjusted Schedule

Trips and VMT - 20 haul trucks/day for demo, site prep, and grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	4.00	5.00
tblConstructionPhase	NumDays	200.00	225.00
tblConstructionPhase	NumDays	10.00	11.00
tblConstructionPhase	NumDays	10.00	11.00
tblTripsAndVMT	HaulingTripNumber	0.00	360.00

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	2.3666	16.1756	21.2889	0.0624	7.6936	0.3354	8.0290	3.5907	0.3344	3.9251	0.0000	6,004.178 1	6,004.178 1	0.2554	0.2099	6,073.107 4
2031	38.0610	7.5108	12.5019	0.0259	0.1867	0.1731	0.3157	0.0505	0.1731	0.1993	0.0000	2,376.629 2	2,376.629 2	0.1015	0.0207	2,385.347 9
<b>Maximum</b>	<b>38.0610</b>	<b>16.1756</b>	<b>21.2889</b>	<b>0.0624</b>	<b>7.6936</b>	<b>0.3354</b>	<b>8.0290</b>	<b>3.5907</b>	<b>0.3344</b>	<b>3.9251</b>	<b>0.0000</b>	<b>6,004.178 1</b>	<b>6,004.178 1</b>	<b>0.2554</b>	<b>0.2099</b>	<b>6,073.107 4</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					
2030	0.6535	7.8829	25.2499	0.0624	3.7982	0.0864	3.8845	1.7071	0.0854	1.7925	0.0000	6,004.178 1	6,004.178 1	0.2554	0.2099	6,073.107 4
2031	37.9599	4.0347	13.5159	0.0259	0.1867	0.0323	0.2190	0.0505	0.0322	0.0827	0.0000	2,376.629 2	2,376.629 2	0.1015	0.0207	2,385.347 9
<b>Maximum</b>	<b>37.9599</b>	<b>7.8829</b>	<b>25.2499</b>	<b>0.0624</b>	<b>3.7982</b>	<b>0.0864</b>	<b>3.8845</b>	<b>1.7071</b>	<b>0.0854</b>	<b>1.7925</b>	<b>0.0000</b>	<b>6,004.178 1</b>	<b>6,004.178 1</b>	<b>0.2554</b>	<b>0.2099</b>	<b>6,073.107 4</b>





Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0777	4.0000e-005	4.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.8500e-003	9.8500e-003	3.0000e-005		0.0105
Energy	0.0382	0.3475	0.2919	2.0900e-003		0.0264	0.0264		0.0264	0.0264		417.0508	417.0508	7.9900e-003	7.6500e-003	419.5291
Mobile	2.3953	2.6179	21.2914	0.0328	4.2107	0.0247	4.2355	1.1219	0.0231	1.1449		3,557.193 1	3,557.193 1	0.3310	0.2184	3,630.539 5
<b>Total</b>	<b>3.5113</b>	<b>2.9655</b>	<b>21.5879</b>	<b>0.0349</b>	<b>4.2107</b>	<b>0.0512</b>	<b>4.2619</b>	<b>1.1219</b>	<b>0.0495</b>	<b>1.1714</b>		<b>3,974.253 7</b>	<b>3,974.253 7</b>	<b>0.3391</b>	<b>0.2260</b>	<b>4,050.079 1</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	1.0777	4.0000e-005	4.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.8500e-003	9.8500e-003	3.0000e-005		0.0105
Energy	0.0382	0.3475	0.2919	2.0900e-003		0.0264	0.0264		0.0264	0.0264		417.0508	417.0508	7.9900e-003	7.6500e-003	419.5291
Mobile	2.3953	2.6179	21.2914	0.0328	4.2107	0.0247	4.2355	1.1219	0.0231	1.1449		3,557.193 1	3,557.193 1	0.3310	0.2184	3,630.539 5
<b>Total</b>	<b>3.5113</b>	<b>2.9655</b>	<b>21.5879</b>	<b>0.0349</b>	<b>4.2107</b>	<b>0.0512</b>	<b>4.2619</b>	<b>1.1219</b>	<b>0.0495</b>	<b>1.1714</b>		<b>3,974.253 7</b>	<b>3,974.253 7</b>	<b>0.3391</b>	<b>0.2260</b>	<b>4,050.079 1</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/19/2030	9/11/2030	5	18	
2	Site Preparation	Site Preparation	9/12/2030	9/13/2030	5	2	
3	Grading	Grading	9/16/2030	9/20/2030	5	5	
4	Building Construction	Building Construction	9/20/2030	7/31/2031	5	225	
5	Paving	Paving	8/1/2031	8/15/2031	5	11	
6	Architectural Coating	Architectural Coating	8/18/2031	9/1/2031	5	11	

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 67,500; Non-Residential Outdoor: 22,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	360.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	40.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	100.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	19.00	7.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Water Exposed Area

**3.2 Demolition - 2030**

**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	1.3307	8.0078	12.9685	0.0281		0.2148	0.2148		0.2148	0.2148		2,662.1297	2,662.1297	0.1177		2,665.0713
<b>Total</b>	<b>1.3307</b>	<b>8.0078</b>	<b>12.9685</b>	<b>0.0281</b>		<b>0.2148</b>	<b>0.2148</b>		<b>0.2148</b>	<b>0.2148</b>		<b>2,662.1297</b>	<b>2,662.1297</b>	<b>0.1177</b>		<b>2,665.0713</b>

**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	0.0438	2.7401	0.6524	0.0108	0.3483	0.0201	0.3684	0.0953	0.0192	0.1145		1,181.3004	1,181.3004	0.0479	0.1874	1,238.3417
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0258	0.0137	0.2124	6.5000e-004	0.0989	3.4000e-004	0.0992	0.0262	3.2000e-004	0.0266		70.6126	70.6126	1.6100e-003	1.7900e-003	71.1865
<b>Total</b>	<b>0.0696</b>	<b>2.7538</b>	<b>0.8648</b>	<b>0.0115</b>	<b>0.4472</b>	<b>0.0204</b>	<b>0.4676</b>	<b>0.1216</b>	<b>0.0195</b>	<b>0.1411</b>		<b>1,251.9130</b>	<b>1,251.9130</b>	<b>0.0495</b>	<b>0.1892</b>	<b>1,309.5282</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2811	1.2179	14.7184	0.0281		0.0375	0.0375		0.0375	0.0375	0.0000	2,662.1297	2,662.1297	0.1177		2,665.0713
<b>Total</b>	<b>0.2811</b>	<b>1.2179</b>	<b>14.7184</b>	<b>0.0281</b>		<b>0.0375</b>	<b>0.0375</b>		<b>0.0375</b>	<b>0.0375</b>	<b>0.0000</b>	<b>2,662.1297</b>	<b>2,662.1297</b>	<b>0.1177</b>		<b>2,665.0713</b>

**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	0.0438	2.7401	0.6524	0.0108	0.3483	0.0201	0.3684	0.0953	0.0192	0.1145		1,181.3004	1,181.3004	0.0479	0.1874	1,238.3417
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0258	0.0137	0.2124	6.5000e-004	0.0989	3.4000e-004	0.0992	0.0262	3.2000e-004	0.0266		70.6126	70.6126	1.6100e-003	1.7900e-003	71.1865
<b>Total</b>	<b>0.0696</b>	<b>2.7538</b>	<b>0.8648</b>	<b>0.0115</b>	<b>0.4472</b>	<b>0.0204</b>	<b>0.4676</b>	<b>0.1216</b>	<b>0.0195</b>	<b>0.1411</b>		<b>1,251.9130</b>	<b>1,251.9130</b>	<b>0.0495</b>	<b>0.1892</b>	<b>1,309.5282</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	0.9750	4.7401	5.9133	0.0211		0.1567	0.1567		0.1567	0.1567		1,994.6929	1,994.6929	0.0866		1,996.8585
<b>Total</b>	<b>0.9750</b>	<b>4.7401</b>	<b>5.9133</b>	<b>0.0211</b>	<b>6.2662</b>	<b>0.1567</b>	<b>6.4229</b>	<b>3.0041</b>	<b>0.1567</b>	<b>3.1607</b>		<b>1,994.6929</b>	<b>1,994.6929</b>	<b>0.0866</b>		<b>1,996.8585</b>

**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	0.0438	2.7401	0.6524	0.0108	0.3483	0.0201	0.3684	0.0953	0.0192	0.1145		1,181.3004	1,181.3004	0.0479	0.1874	1,238.3417
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0159	8.4100e-003	0.1307	4.0000e-004	0.0609	2.1000e-004	0.0611	0.0161	2.0000e-004	0.0163		43.4539	43.4539	9.9000e-004	1.1000e-003	43.8071
<b>Total</b>	<b>0.0597</b>	<b>2.7486</b>	<b>0.7831</b>	<b>0.0112</b>	<b>0.4091</b>	<b>0.0203</b>	<b>0.4294</b>	<b>0.1115</b>	<b>0.0194</b>	<b>0.1309</b>		<b>1,224.7543</b>	<b>1,224.7543</b>	<b>0.0489</b>	<b>0.1885</b>	<b>1,282.1487</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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					2.8198	0.0000	2.8198	1.3518	0.0000	1.3518			0.0000			0.0000
Off-Road	0.2106	0.9126	8.6714	0.0211		0.0281	0.0281		0.0281	0.0281	0.0000	1,994.6929	1,994.6929	0.0866		1,996.8585
<b>Total</b>	<b>0.2106</b>	<b>0.9126</b>	<b>8.6714</b>	<b>0.0211</b>	<b>2.8198</b>	<b>0.0281</b>	<b>2.8479</b>	<b>1.3518</b>	<b>0.0281</b>	<b>1.3799</b>	<b>0.0000</b>	<b>1,994.6929</b>	<b>1,994.6929</b>	<b>0.0866</b>		<b>1,996.8585</b>

**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	0.0438	2.7401	0.6524	0.0108	0.3483	0.0201	0.3684	0.0953	0.0192	0.1145		1,181.3004	1,181.3004	0.0479	0.1874	1,238.3417
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0159	8.4100e-003	0.1307	4.0000e-004	0.0609	2.1000e-004	0.0611	0.0161	2.0000e-004	0.0163		43.4539	43.4539	9.9000e-004	1.1000e-003	43.8071
<b>Total</b>	<b>0.0597</b>	<b>2.7486</b>	<b>0.7831</b>	<b>0.0112</b>	<b>0.4091</b>	<b>0.0203</b>	<b>0.4294</b>	<b>0.1115</b>	<b>0.0194</b>	<b>0.1309</b>		<b>1,224.7543</b>	<b>1,224.7543</b>	<b>0.0489</b>	<b>0.1885</b>	<b>1,282.1487</b>



Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.1771	5.9092	7.9601	0.0252		0.1859	0.1859		0.1859	0.1859		2,388.274 1	2,388.274 1	0.1046		2,390.888 0
<b>Total</b>	<b>1.1771</b>	<b>5.9092</b>	<b>7.9601</b>	<b>0.0252</b>	<b>7.0826</b>	<b>0.1859</b>	<b>7.2685</b>	<b>3.4247</b>	<b>0.1859</b>	<b>3.6107</b>		<b>2,388.274 1</b>	<b>2,388.274 1</b>	<b>0.1046</b>		<b>2,390.888 0</b>

**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	0.0438	2.7401	0.6524	0.0108	0.3483	0.0201	0.3684	0.0953	0.0192	0.1145		1,181.300 4	1,181.300 4	0.0479	0.1874	1,238.341 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0198	0.0105	0.1634	5.0000e-004	0.0761	2.7000e-004	0.0763	0.0202	2.4000e-004	0.0204		54.3174	54.3174	1.2400e-003	1.3800e-003	54.7588
<b>Total</b>	<b>0.0636</b>	<b>2.7507</b>	<b>0.8158</b>	<b>0.0113</b>	<b>0.4244</b>	<b>0.0204</b>	<b>0.4447</b>	<b>0.1155</b>	<b>0.0195</b>	<b>0.1350</b>		<b>1,235.617 8</b>	<b>1,235.617 8</b>	<b>0.0492</b>	<b>0.1888</b>	<b>1,293.100 5</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.2522	1.0927	10.9071	0.0252		0.0336	0.0336		0.0336	0.0336	0.0000	2,388.274 1	2,388.274 1	0.1046		2,390.888 0
<b>Total</b>	<b>0.2522</b>	<b>1.0927</b>	<b>10.9071</b>	<b>0.0252</b>	<b>3.1872</b>	<b>0.0336</b>	<b>3.2208</b>	<b>1.5411</b>	<b>0.0336</b>	<b>1.5748</b>	<b>0.0000</b>	<b>2,388.274 1</b>	<b>2,388.274 1</b>	<b>0.1046</b>		<b>2,390.888 0</b>

**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	0.0438	2.7401	0.6524	0.0108	0.3483	0.0201	0.3684	0.0953	0.0192	0.1145		1,181.300 4	1,181.300 4	0.0479	0.1874	1,238.341 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0198	0.0105	0.1634	5.0000e-004	0.0761	2.7000e-004	0.0763	0.0202	2.4000e-004	0.0204		54.3174	54.3174	1.2400e-003	1.3800e-003	54.7588
<b>Total</b>	<b>0.0636</b>	<b>2.7507</b>	<b>0.8158</b>	<b>0.0113</b>	<b>0.4244</b>	<b>0.0204</b>	<b>0.4447</b>	<b>0.1155</b>	<b>0.0195</b>	<b>0.1350</b>		<b>1,235.617 8</b>	<b>1,235.617 8</b>	<b>0.0492</b>	<b>0.1888</b>	<b>1,293.100 5</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655
<b>Total</b>	<b>1.0812</b>	<b>7.1882</b>	<b>12.1101</b>	<b>0.0238</b>		<b>0.1270</b>	<b>0.1270</b>		<b>0.1270</b>	<b>0.1270</b>		<b>2,152.6566</b>	<b>2,152.6566</b>	<b>0.0964</b>		<b>2,155.0655</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0700e-003	0.3076	0.0925	1.1600e-003	0.0422	1.5700e-003	0.0437	0.0121	1.5100e-003	0.0136		124.4265	124.4265	3.0200e-003	0.0185	130.0117
Worker	0.0377	0.0200	0.3104	9.5000e-004	0.1445	5.0000e-004	0.1450	0.0383	4.6000e-004	0.0388		103.2031	103.2031	2.3500e-003	2.6200e-003	104.0418
<b>Total</b>	<b>0.0447</b>	<b>0.3276</b>	<b>0.4029</b>	<b>2.1100e-003</b>	<b>0.1867</b>	<b>2.0700e-003</b>	<b>0.1888</b>	<b>0.0505</b>	<b>1.9700e-003</b>	<b>0.0524</b>		<b>227.6296</b>	<b>227.6296</b>	<b>5.3700e-003</b>	<b>0.0211</b>	<b>234.0535</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2930	3.7120	13.1241	0.0238		0.0303	0.0303		0.0303	0.0303	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
<b>Total</b>	<b>0.2930</b>	<b>3.7120</b>	<b>13.1241</b>	<b>0.0238</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0303</b>	<b>0.0303</b>	<b>0.0000</b>	<b>2,152.6566</b>	<b>2,152.6566</b>	<b>0.0964</b>		<b>2,155.0655</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0700e-003	0.3076	0.0925	1.1600e-003	0.0422	1.5700e-003	0.0437	0.0121	1.5100e-003	0.0136		124.4265	124.4265	3.0200e-003	0.0185	130.0117
Worker	0.0377	0.0200	0.3104	9.5000e-004	0.1445	5.0000e-004	0.1450	0.0383	4.6000e-004	0.0388		103.2031	103.2031	2.3500e-003	2.6200e-003	104.0418
<b>Total</b>	<b>0.0447</b>	<b>0.3276</b>	<b>0.4029</b>	<b>2.1100e-003</b>	<b>0.1867</b>	<b>2.0700e-003</b>	<b>0.1888</b>	<b>0.0505</b>	<b>1.9700e-003</b>	<b>0.0524</b>		<b>227.6296</b>	<b>227.6296</b>	<b>5.3700e-003</b>	<b>0.0211</b>	<b>234.0535</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655
<b>Total</b>	<b>1.0812</b>	<b>7.1882</b>	<b>12.1101</b>	<b>0.0238</b>		<b>0.1270</b>	<b>0.1270</b>		<b>0.1270</b>	<b>0.1270</b>		<b>2,152.6566</b>	<b>2,152.6566</b>	<b>0.0964</b>		<b>2,155.0655</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8900e-003	0.3038	0.0918	1.1400e-003	0.0421	1.5400e-003	0.0437	0.0121	1.4800e-003	0.0136		122.3500	122.3500	2.9700e-003	0.0182	127.8486
Worker	0.0355	0.0188	0.3000	9.3000e-004	0.1445	4.7000e-004	0.1450	0.0383	4.3000e-004	0.0388		101.6226	101.6226	2.1900e-003	2.5400e-003	102.4338
<b>Total</b>	<b>0.0424</b>	<b>0.3226</b>	<b>0.3918</b>	<b>2.0700e-003</b>	<b>0.1867</b>	<b>2.0100e-003</b>	<b>0.1887</b>	<b>0.0505</b>	<b>1.9100e-003</b>	<b>0.0524</b>		<b>223.9726</b>	<b>223.9726</b>	<b>5.1600e-003</b>	<b>0.0207</b>	<b>230.2825</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2930	3.7120	13.1241	0.0238		0.0303	0.0303		0.0303	0.0303	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
<b>Total</b>	<b>0.2930</b>	<b>3.7120</b>	<b>13.1241</b>	<b>0.0238</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0303</b>	<b>0.0303</b>	<b>0.0000</b>	<b>2,152.6566</b>	<b>2,152.6566</b>	<b>0.0964</b>		<b>2,155.0655</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8900e-003	0.3038	0.0918	1.1400e-003	0.0421	1.5400e-003	0.0437	0.0121	1.4800e-003	0.0136		122.3500	122.3500	2.9700e-003	0.0182	127.8486
Worker	0.0355	0.0188	0.3000	9.3000e-004	0.1445	4.7000e-004	0.1450	0.0383	4.3000e-004	0.0388		101.6226	101.6226	2.1900e-003	2.5400e-003	102.4338
<b>Total</b>	<b>0.0424</b>	<b>0.3226</b>	<b>0.3918</b>	<b>2.0700e-003</b>	<b>0.1867</b>	<b>2.0100e-003</b>	<b>0.1887</b>	<b>0.0505</b>	<b>1.9100e-003</b>	<b>0.0524</b>		<b>223.9726</b>	<b>223.9726</b>	<b>5.1600e-003</b>	<b>0.0207</b>	<b>230.2825</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728		1,550.971 <sub>2</sub>	1,550.971 <sub>2</sub>	0.0731		1,552.798 <sub>3</sub>
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8162</b>	<b>4.3905</b>	<b>9.4567</b>	<b>0.0165</b>		<b>0.1728</b>	<b>0.1728</b>		<b>0.1728</b>	<b>0.1728</b>		<b>1,550.971<sub>2</sub></b>	<b>1,550.971<sub>2</sub></b>	<b>0.0731</b>		<b>1,552.798<sub>3</sub></b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0243	0.0129	0.2053	6.4000e-004	0.0989	3.2000e-004	0.0992	0.0262	3.0000e-004	0.0265		69.5313	69.5313	1.5000e-003	1.7400e-003	70.0863
<b>Total</b>	<b>0.0243</b>	<b>0.0129</b>	<b>0.2053</b>	<b>6.4000e-004</b>	<b>0.0989</b>	<b>3.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>3.0000e-004</b>	<b>0.0265</b>		<b>69.5313</b>	<b>69.5313</b>	<b>1.5000e-003</b>	<b>1.7400e-003</b>	<b>70.0863</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1598	0.6922	9.8512	0.0165		0.0213	0.0213		0.0213	0.0213	0.0000	1,550.971 <sub>2</sub>	1,550.971 <sub>2</sub>	0.0731		1,552.798 <sub>3</sub>
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1598</b>	<b>0.6922</b>	<b>9.8512</b>	<b>0.0165</b>		<b>0.0213</b>	<b>0.0213</b>		<b>0.0213</b>	<b>0.0213</b>	<b>0.0000</b>	<b>1,550.971<sub>2</sub></b>	<b>1,550.971<sub>2</sub></b>	<b>0.0731</b>		<b>1,552.798<sub>3</sub></b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0243	0.0129	0.2053	6.4000e-004	0.0989	3.2000e-004	0.0992	0.0262	3.0000e-004	0.0265		69.5313	69.5313	1.5000e-003	1.7400e-003	70.0863
<b>Total</b>	<b>0.0243</b>	<b>0.0129</b>	<b>0.2053</b>	<b>6.4000e-004</b>	<b>0.0989</b>	<b>3.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>3.0000e-004</b>	<b>0.0265</b>		<b>69.5313</b>	<b>69.5313</b>	<b>1.5000e-003</b>	<b>1.7400e-003</b>	<b>70.0863</b>



Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	37.9227					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>38.0535</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4800e-003	3.9600e-003	0.0632	2.0000e-004	0.0304	1.0000e-004	0.0305	8.0700e-003	9.0000e-005	8.1600e-003		21.3942	21.3942	4.6000e-004	5.3000e-004	21.5650
<b>Total</b>	<b>7.4800e-003</b>	<b>3.9600e-003</b>	<b>0.0632</b>	<b>2.0000e-004</b>	<b>0.0304</b>	<b>1.0000e-004</b>	<b>0.0305</b>	<b>8.0700e-003</b>	<b>9.0000e-005</b>	<b>8.1600e-003</b>		<b>21.3942</b>	<b>21.3942</b>	<b>4.6000e-004</b>	<b>5.3000e-004</b>	<b>21.5650</b>

Innovation Park CNU Phase 3D - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	37.9227					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>37.9524</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4800e-003	3.9600e-003	0.0632	2.0000e-004	0.0304	1.0000e-004	0.0305	8.0700e-003	9.0000e-005	8.1600e-003		21.3942	21.3942	4.6000e-004	5.3000e-004	21.5650
<b>Total</b>	<b>7.4800e-003</b>	<b>3.9600e-003</b>	<b>0.0632</b>	<b>2.0000e-004</b>	<b>0.0304</b>	<b>1.0000e-004</b>	<b>0.0305</b>	<b>8.0700e-003</b>	<b>9.0000e-005</b>	<b>8.1600e-003</b>		<b>21.3942</b>	<b>21.3942</b>	<b>4.6000e-004</b>	<b>5.3000e-004</b>	<b>21.5650</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3E**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.40	1000sqft	0.33	14,400.00	0
Enclosed Parking Structure	48.00	Space	0.43	14,400.00	0
Congregate Care (Assisted Living)	100.00	Dwelling Unit	6.25	57,600.00	267

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2032
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics - Active Senior Living BLDG
- Land Use - Active Senior Living Building
- Construction Phase - Adjusted Schedule
- Trips and VMT - 10 truck/day for demo, site prep. grading
- Grading -
- Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	10.00	8.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	230.00	308.00
tblConstructionPhase	NumDays	20.00	26.00

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	20.00	27.00
tblLandUse	LandUseSquareFeet	19,200.00	14,400.00
tblLandUse	LandUseSquareFeet	100,000.00	57,600.00
tblTripsAndVMT	HaulingTripNumber	0.00	160.00
tblTripsAndVMT	HaulingTripNumber	0.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	170.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2031	3.1465	17.7784	32.6794	0.0798	19.9681	0.4470	20.4150	10.1864	0.4465	10.6329	0.0000	7,703.677 4	7,703.677 4	0.3012	0.1441	7,754.153 6
2032	31.9507	8.6566	17.6244	0.0374	0.7217	0.3310	0.8750	0.1935	0.3310	0.3612	0.0000	3,593.688 8	3,593.688 8	0.1315	0.0493	3,611.659 4
<b>Maximum</b>	<b>31.9507</b>	<b>17.7784</b>	<b>32.6794</b>	<b>0.0798</b>	<b>19.9681</b>	<b>0.4470</b>	<b>20.4150</b>	<b>10.1864</b>	<b>0.4465</b>	<b>10.6329</b>	<b>0.0000</b>	<b>7,703.677 4</b>	<b>7,703.677 4</b>	<b>0.3012</b>	<b>0.1441</b>	<b>7,754.153 6</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					
2031	0.9105	5.9020	37.2835	0.0798	9.1567	0.1048	9.2291	4.6301	0.1040	4.7020	0.0000	7,703.677 4	7,703.677 4	0.3012	0.1441	7,754.153 6
2032	31.8497	2.9567	18.9276	0.0374	0.7217	0.0460	0.7677	0.1935	0.0457	0.2392	0.0000	3,593.688 8	3,593.688 8	0.1315	0.0493	3,611.659 4
<b>Maximum</b>	<b>31.8497</b>	<b>5.9020</b>	<b>37.2835</b>	<b>0.0798</b>	<b>9.1567</b>	<b>0.1048</b>	<b>9.2291</b>	<b>4.6301</b>	<b>0.1040</b>	<b>4.7020</b>	<b>0.0000</b>	<b>7,703.677 4</b>	<b>7,703.677 4</b>	<b>0.3012</b>	<b>0.1441</b>	<b>7,754.153 6</b>

## Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.66	66.49	-11.74	0.00	52.25	80.62	53.05	53.53	80.74	55.06	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0278	0.0949	8.2347	4.4000e-004		0.0458	0.0458		0.0458	0.0458	0.0000	14.8689	14.8689	0.0142	0.0000	15.2236
Energy	0.0333	0.2880	0.1433	1.8200e-003		0.0230	0.0230		0.0230	0.0230		363.7502	363.7502	6.9700e-003	6.6700e-003	365.9118
Mobile	0.8305	1.0857	8.7816	0.0171	2.3125	0.0115	2.3240	0.6161	0.0107	0.6268		1,858.2893	1,858.2893	0.1307	0.0931	1,889.3011
<b>Total</b>	<b>2.8916</b>	<b>1.4686</b>	<b>17.1596</b>	<b>0.0193</b>	<b>2.3125</b>	<b>0.0803</b>	<b>2.3928</b>	<b>0.6161</b>	<b>0.0796</b>	<b>0.6956</b>	<b>0.0000</b>	<b>2,236.9084</b>	<b>2,236.9084</b>	<b>0.1518</b>	<b>0.0998</b>	<b>2,270.4365</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	2.0278	0.0949	8.2347	4.4000e-004		0.0458	0.0458		0.0458	0.0458	0.0000	14.8689	14.8689	0.0142	0.0000	15.2236
Energy	0.0333	0.2880	0.1433	1.8200e-003		0.0230	0.0230		0.0230	0.0230		363.7502	363.7502	6.9700e-003	6.6700e-003	365.9118
Mobile	0.8305	1.0857	8.7816	0.0171	2.3125	0.0115	2.3240	0.6161	0.0107	0.6268		1,858.2893	1,858.2893	0.1307	0.0931	1,889.3011
<b>Total</b>	<b>2.8916</b>	<b>1.4686</b>	<b>17.1596</b>	<b>0.0193</b>	<b>2.3125</b>	<b>0.0803</b>	<b>2.3928</b>	<b>0.6161</b>	<b>0.0796</b>	<b>0.6956</b>	<b>0.0000</b>	<b>2,236.9084</b>	<b>2,236.9084</b>	<b>0.1518</b>	<b>0.0998</b>	<b>2,270.4365</b>



Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/18/2031	3/11/2031	5	16	
2	Site Preparation	Site Preparation	3/12/2031	3/21/2031	5	8	
3	Grading	Grading	3/24/2031	4/15/2031	5	17	
4	Building Construction	Building Construction	4/15/2031	6/17/2032	5	308	
5	Paving	Paving	6/18/2032	7/23/2032	5	26	
6	Architectural Coating	Architectural Coating	7/26/2032	8/30/2032	5	27	

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 0.43**

**Residential Indoor: 116,640; Residential Outdoor: 38,880; Non-Residential Indoor: 21,600; Non-Residential Outdoor: 7,200; Striped Parking Area: 864 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	160.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	80.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	170.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	15.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2031**

**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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>		<b>0.3511</b>	<b>0.3511</b>		<b>0.3511</b>	<b>0.3511</b>		<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0215	1.3457	0.3264	5.3000e-003	0.1741	9.8400e-003	0.1840	0.0477	9.4100e-003	0.0571		580.0732	580.0732	0.0236	0.0920	608.0847
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688
<b>Total</b>	<b>0.0495</b>	<b>1.3605</b>	<b>0.5633</b>	<b>6.0400e-003</b>	<b>0.2882</b>	<b>0.0102</b>	<b>0.2984</b>	<b>0.0779</b>	<b>9.7500e-003</b>	<b>0.0877</b>		<b>660.3016</b>	<b>660.3016</b>	<b>0.0253</b>	<b>0.0940</b>	<b>688.9536</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0462		0.0616	0.0616		0.0616	0.0616	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0462</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0215	1.3457	0.3264	5.3000e-003	0.1741	9.8400e-003	0.1840	0.0477	9.4100e-003	0.0571		580.0732	580.0732	0.0236	0.0920	608.0847
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688
<b>Total</b>	<b>0.0495</b>	<b>1.3605</b>	<b>0.5633</b>	<b>6.0400e-003</b>	<b>0.2882</b>	<b>0.0102</b>	<b>0.2984</b>	<b>0.0779</b>	<b>9.7500e-003</b>	<b>0.0877</b>		<b>660.3016</b>	<b>660.3016</b>	<b>0.0253</b>	<b>0.0940</b>	<b>688.9536</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.6570</b>	<b>0.4367</b>	<b>20.0937</b>	<b>10.1025</b>	<b>0.4367</b>	<b>10.5391</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**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	0.0215	1.3457	0.3264	5.3000e-003	0.1741	9.8400e-003	0.1840	0.0477	9.4100e-003	0.0571		580.0732	580.0732	0.0236	0.0920	608.0847
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0178	0.2842	8.8000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		96.2741	96.2741	2.0800e-003	2.4000e-003	97.0426
<b>Total</b>	<b>0.0551</b>	<b>1.3635</b>	<b>0.6106</b>	<b>6.1800e-003</b>	<b>0.3111</b>	<b>0.0103</b>	<b>0.3213</b>	<b>0.0840</b>	<b>9.8200e-003</b>	<b>0.0938</b>		<b>676.3472</b>	<b>676.3472</b>	<b>0.0257</b>	<b>0.0944</b>	<b>705.1273</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2031**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**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	0.0215	1.3457	0.3264	5.3000e-003	0.1741	9.8400e-003	0.1840	0.0477	9.4100e-003	0.0571		580.0732	580.0732	0.0236	0.0920	608.0847
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0178	0.2842	8.8000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		96.2741	96.2741	2.0800e-003	2.4000e-003	97.0426
<b>Total</b>	<b>0.0551</b>	<b>1.3635</b>	<b>0.6106</b>	<b>6.1800e-003</b>	<b>0.3111</b>	<b>0.0103</b>	<b>0.3213</b>	<b>0.0840</b>	<b>9.8200e-003</b>	<b>0.0938</b>		<b>676.3472</b>	<b>676.3472</b>	<b>0.0257</b>	<b>0.0944</b>	<b>705.1273</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.720 1	3,439.720 1	0.1437		3,443.311 7
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>7.0826</b>	<b>0.2340</b>	<b>7.3166</b>	<b>3.4247</b>	<b>0.2340</b>	<b>3.6588</b>		<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**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	0.0215	1.3457	0.3264	5.3000e-003	0.1741	9.8400e-003	0.1840	0.0477	9.4100e-003	0.0571		580.0732	580.0732	0.0236	0.0920	608.0847
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688
<b>Total</b>	<b>0.0495</b>	<b>1.3605</b>	<b>0.5633</b>	<b>6.0400e-003</b>	<b>0.2882</b>	<b>0.0102</b>	<b>0.2984</b>	<b>0.0779</b>	<b>9.7500e-003</b>	<b>0.0877</b>		<b>660.3016</b>	<b>660.3016</b>	<b>0.0253</b>	<b>0.0940</b>	<b>688.9536</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0363		0.0484	0.0484		0.0484	0.0484	0.0000	3,439.720 1	3,439.720 1	0.1437		3,443.311 7
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0363</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**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	0.0215	1.3457	0.3264	5.3000e-003	0.1741	9.8400e-003	0.1840	0.0477	9.4100e-003	0.0571		580.0732	580.0732	0.0236	0.0920	608.0847
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688
<b>Total</b>	<b>0.0495</b>	<b>1.3605</b>	<b>0.5633</b>	<b>6.0400e-003</b>	<b>0.2882</b>	<b>0.0102</b>	<b>0.2984</b>	<b>0.0779</b>	<b>9.7500e-003</b>	<b>0.0877</b>		<b>660.3016</b>	<b>660.3016</b>	<b>0.0253</b>	<b>0.0940</b>	<b>688.9536</b>



Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0148	0.6510	0.1967	2.4400e-003	0.0903	3.3100e-003	0.0936	0.0260	3.1700e-003	0.0292		262.1785	262.1785	6.3700e-003	0.0390	273.9613
Worker	0.1552	0.0821	1.3106	4.0800e-003	0.6314	2.0600e-003	0.6334	0.1675	1.9000e-003	0.1694		443.9305	443.9305	9.5700e-003	0.0111	447.4741
<b>Total</b>	<b>0.1700</b>	<b>0.7331</b>	<b>1.5073</b>	<b>6.5200e-003</b>	<b>0.7217</b>	<b>5.3700e-003</b>	<b>0.7271</b>	<b>0.1935</b>	<b>5.0700e-003</b>	<b>0.1985</b>		<b>706.1089</b>	<b>706.1089</b>	<b>0.0159</b>	<b>0.0501</b>	<b>721.4355</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0148	0.6510	0.1967	2.4400e-003	0.0903	3.3100e-003	0.0936	0.0260	3.1700e-003	0.0292		262.1785	262.1785	6.3700e-003	0.0390	273.9613
Worker	0.1552	0.0821	1.3106	4.0800e-003	0.6314	2.0600e-003	0.6334	0.1675	1.9000e-003	0.1694		443.9305	443.9305	9.5700e-003	0.0111	447.4741
<b>Total</b>	<b>0.1700</b>	<b>0.7331</b>	<b>1.5073</b>	<b>6.5200e-003</b>	<b>0.7217</b>	<b>5.3700e-003</b>	<b>0.7271</b>	<b>0.1935</b>	<b>5.0700e-003</b>	<b>0.1985</b>		<b>706.1089</b>	<b>706.1089</b>	<b>0.0159</b>	<b>0.0501</b>	<b>721.4355</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0145	0.6442	0.1957	2.4000e-003	0.0903	3.2600e-003	0.0936	0.0260	3.1100e-003	0.0291		258.2660	258.2660	6.2800e-003	0.0385	269.8863
Worker	0.1467	0.0778	1.2716	4.0000e-003	0.6314	1.9300e-003	0.6333	0.1675	1.7800e-003	0.1693		437.8761	437.8761	8.9500e-003	0.0108	441.3203
<b>Total</b>	<b>0.1612</b>	<b>0.7220</b>	<b>1.4674</b>	<b>6.4000e-003</b>	<b>0.7217</b>	<b>5.1900e-003</b>	<b>0.7269</b>	<b>0.1935</b>	<b>4.8900e-003</b>	<b>0.1984</b>		<b>696.1421</b>	<b>696.1421</b>	<b>0.0152</b>	<b>0.0493</b>	<b>711.2066</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0145	0.6442	0.1957	2.4000e-003	0.0903	3.2600e-003	0.0936	0.0260	3.1100e-003	0.0291		258.2660	258.2660	6.2800e-003	0.0385	269.8863
Worker	0.1467	0.0778	1.2716	4.0000e-003	0.6314	1.9300e-003	0.6333	0.1675	1.7800e-003	0.1693		437.8761	437.8761	8.9500e-003	0.0108	441.3203
<b>Total</b>	<b>0.1612</b>	<b>0.7220</b>	<b>1.4674</b>	<b>6.4000e-003</b>	<b>0.7217</b>	<b>5.1900e-003</b>	<b>0.7269</b>	<b>0.1935</b>	<b>4.8900e-003</b>	<b>0.1984</b>		<b>696.1421</b>	<b>696.1421</b>	<b>0.0152</b>	<b>0.0493</b>	<b>711.2066</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0141	0.2298	7.2000e-004	0.1141	3.5000e-004	0.1145	0.0303	3.2000e-004	0.0306		79.1342	79.1342	1.6200e-003	1.9500e-003	79.7567
<b>Total</b>	<b>0.0265</b>	<b>0.0141</b>	<b>0.2298</b>	<b>7.2000e-004</b>	<b>0.1141</b>	<b>3.5000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.2000e-004</b>	<b>0.0306</b>		<b>79.1342</b>	<b>79.1342</b>	<b>1.6200e-003</b>	<b>1.9500e-003</b>	<b>79.7567</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0141	0.2298	7.2000e-004	0.1141	3.5000e-004	0.1145	0.0303	3.2000e-004	0.0306		79.1342	79.1342	1.6200e-003	1.9500e-003	79.7567
<b>Total</b>	<b>0.0265</b>	<b>0.0141</b>	<b>0.2298</b>	<b>7.2000e-004</b>	<b>0.1141</b>	<b>3.5000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.2000e-004</b>	<b>0.0306</b>		<b>79.1342</b>	<b>79.1342</b>	<b>1.6200e-003</b>	<b>1.9500e-003</b>	<b>79.7567</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	31.7899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>31.9207</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0301	0.0159	0.2605	8.2000e-004	0.1293	4.0000e-004	0.1297	0.0343	3.6000e-004	0.0347		89.6855	89.6855	1.8300e-003	2.2100e-003	90.3909
<b>Total</b>	<b>0.0301</b>	<b>0.0159</b>	<b>0.2605</b>	<b>8.2000e-004</b>	<b>0.1293</b>	<b>4.0000e-004</b>	<b>0.1297</b>	<b>0.0343</b>	<b>3.6000e-004</b>	<b>0.0347</b>		<b>89.6855</b>	<b>89.6855</b>	<b>1.8300e-003</b>	<b>2.2100e-003</b>	<b>90.3909</b>

Innovation Park CNU Phase 3E - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	31.7899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>31.8196</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0301	0.0159	0.2605	8.2000e-004	0.1293	4.0000e-004	0.1297	0.0343	3.6000e-004	0.0347		89.6855	89.6855	1.8300e-003	2.2100e-003	90.3909
<b>Total</b>	<b>0.0301</b>	<b>0.0159</b>	<b>0.2605</b>	<b>8.2000e-004</b>	<b>0.1293</b>	<b>4.0000e-004</b>	<b>0.1297</b>	<b>0.0343</b>	<b>3.6000e-004</b>	<b>0.0347</b>		<b>89.6855</b>	<b>89.6855</b>	<b>1.8300e-003</b>	<b>2.2100e-003</b>	<b>90.3909</b>



Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3F**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,200.00	Space	10.80	207,000.00	0
Strip Mall	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2032
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Parking/Retail Construction ONLY

Land Use - Retail + Parking structure 2

Construction Off-road Equipment Mitigation - Tier 4+ PM BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblLandUse	LandUseSquareFeet	480,000.00	207,000.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2031	3.3181	13.8659	23.3397	0.0709	19.7939	0.4884	20.2310	10.1388	0.4884	10.5758	0.0000	7,320.0797	7,320.0797	0.2938	0.1230	7,328.2214
2032	26.2212	9.8349	18.2831	0.0427	1.0364	0.3310	1.1960	0.2806	0.3310	0.4397	0.0000	4,164.0799	4,164.0799	0.1449	0.1211	4,203.7970
<b>Maximum</b>	<b>26.2212</b>	<b>13.8659</b>	<b>23.3397</b>	<b>0.0709</b>	<b>19.7939</b>	<b>0.4884</b>	<b>20.2310</b>	<b>10.1388</b>	<b>0.4884</b>	<b>10.5758</b>	<b>0.0000</b>	<b>7,320.0797</b>	<b>7,320.0797</b>	<b>0.2938</b>	<b>0.1230</b>	<b>7,328.2214</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					
2031	0.7990	4.1595	33.3150	0.0709	8.9826	0.1020	9.0451	4.5824	0.1020	4.6449	0.0000	7,320.0797	7,320.0797	0.2938	0.1230	7,328.2214
2032	26.1202	4.1349	19.5864	0.0427	1.0364	0.0523	1.0887	0.2806	0.0517	0.3323	0.0000	4,164.0799	4,164.0799	0.1449	0.1211	4,203.7970
<b>Maximum</b>	<b>26.1202</b>	<b>4.1595</b>	<b>33.3150</b>	<b>0.0709</b>	<b>8.9826</b>	<b>0.1020</b>	<b>9.0451</b>	<b>4.5824</b>	<b>0.1020</b>	<b>4.6449</b>	<b>0.0000</b>	<b>7,320.0797</b>	<b>7,320.0797</b>	<b>0.2938</b>	<b>0.1230</b>	<b>7,328.2214</b>



Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2977	1.1400e-003	0.1270	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2736	0.2736	7.1000e-004		0.2912
Energy	7.9300e-003	0.0721	0.0606	4.3000e-004		5.4800e-003	5.4800e-003		5.4800e-003	5.4800e-003		86.5431	86.5431	1.6600e-003	1.5900e-003	87.0574
Mobile	3.0487	3.3880	27.8332	0.0437	5.7391	0.0316	5.7708	1.5290	0.0295	1.5585		4,758.3906	4,758.3906	0.4278	0.2864	4,854.4237
<b>Total</b>	<b>4.3543</b>	<b>3.4613</b>	<b>28.0208</b>	<b>0.0442</b>	<b>5.7391</b>	<b>0.0376</b>	<b>5.7767</b>	<b>1.5290</b>	<b>0.0354</b>	<b>1.5644</b>		<b>4,845.2073</b>	<b>4,845.2073</b>	<b>0.4302</b>	<b>0.2880</b>	<b>4,941.7723</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	1.2977	1.1400e-003	0.1270	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2736	0.2736	7.1000e-004		0.2912
Energy	7.9300e-003	0.0721	0.0606	4.3000e-004		5.4800e-003	5.4800e-003		5.4800e-003	5.4800e-003		86.5431	86.5431	1.6600e-003	1.5900e-003	87.0574
Mobile	3.0487	3.3880	27.8332	0.0437	5.7391	0.0316	5.7708	1.5290	0.0295	1.5585		4,758.3906	4,758.3906	0.4278	0.2864	4,854.4237
<b>Total</b>	<b>4.3543</b>	<b>3.4613</b>	<b>28.0208</b>	<b>0.0442</b>	<b>5.7391</b>	<b>0.0376</b>	<b>5.7767</b>	<b>1.5290</b>	<b>0.0354</b>	<b>1.5644</b>		<b>4,845.2073</b>	<b>4,845.2073</b>	<b>0.4302</b>	<b>0.2880</b>	<b>4,941.7723</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/18/2031	4/14/2031	5	20	
2	Site Preparation	Site Preparation	4/15/2031	4/28/2031	5	10	
3	Grading	Grading	4/29/2031	6/9/2031	5	30	
4	Building Construction	Building Construction	6/10/2031	8/2/2032	5	300	
5	Paving	Paving	8/3/2032	8/30/2032	5	20	
6	Architectural Coating	Architectural Coating	8/31/2032	9/27/2032	5	20	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 10.8**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 12,420 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	103.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2031**

**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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>		<b>0.3511</b>	<b>0.3511</b>		<b>0.3511</b>	<b>0.3511</b>		<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688
<b>Total</b>	<b>0.0281</b>	<b>0.0148</b>	<b>0.2369</b>	<b>7.4000e-004</b>	<b>0.1141</b>	<b>3.7000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.4000e-004</b>	<b>0.0306</b>		<b>80.2284</b>	<b>80.2284</b>	<b>1.7300e-003</b>	<b>2.0000e-003</b>	<b>80.8688</b>



Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0462		0.0616	0.0616		0.0616	0.0616	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0462</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688
<b>Total</b>	<b>0.0281</b>	<b>0.0148</b>	<b>0.2369</b>	<b>7.4000e-004</b>	<b>0.1141</b>	<b>3.7000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.4000e-004</b>	<b>0.0306</b>		<b>80.2284</b>	<b>80.2284</b>	<b>1.7300e-003</b>	<b>2.0000e-003</b>	<b>80.8688</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.6570</b>	<b>0.4367</b>	<b>20.0937</b>	<b>10.1025</b>	<b>0.4367</b>	<b>10.5391</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0178	0.2842	8.8000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		96.2741	96.2741	2.0800e-003	2.4000e-003	97.0426
<b>Total</b>	<b>0.0337</b>	<b>0.0178</b>	<b>0.2842</b>	<b>8.8000e-004</b>	<b>0.1369</b>	<b>4.5000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.1000e-004</b>	<b>0.0367</b>		<b>96.2741</b>	<b>96.2741</b>	<b>2.0800e-003</b>	<b>2.4000e-003</b>	<b>97.0426</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2031**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0178	0.2842	8.8000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		96.2741	96.2741	2.0800e-003	2.4000e-003	97.0426
<b>Total</b>	<b>0.0337</b>	<b>0.0178</b>	<b>0.2842</b>	<b>8.8000e-004</b>	<b>0.1369</b>	<b>4.5000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.1000e-004</b>	<b>0.0367</b>		<b>96.2741</b>	<b>96.2741</b>	<b>2.0800e-003</b>	<b>2.4000e-003</b>	<b>97.0426</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>9.2036</b>	<b>0.4879</b>	<b>9.6915</b>	<b>3.6538</b>	<b>0.4879</b>	<b>4.1417</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0374	0.0198	0.3158	9.8000e-004	0.1521	5.0000e-004	0.1526	0.0404	4.6000e-004	0.0408		106.9712	106.9712	2.3100e-003	2.6700e-003	107.8251
<b>Total</b>	<b>0.0374</b>	<b>0.0198</b>	<b>0.3158</b>	<b>9.8000e-004</b>	<b>0.1521</b>	<b>5.0000e-004</b>	<b>0.1526</b>	<b>0.0404</b>	<b>4.6000e-004</b>	<b>0.0408</b>		<b>106.9712</b>	<b>106.9712</b>	<b>2.3100e-003</b>	<b>2.6700e-003</b>	<b>107.8251</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>4.1416</b>	<b>0.1015</b>	<b>4.2432</b>	<b>1.6442</b>	<b>0.1015</b>	<b>1.7457</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0374	0.0198	0.3158	9.8000e-004	0.1521	5.0000e-004	0.1526	0.0404	4.6000e-004	0.0408		106.9712	106.9712	2.3100e-003	2.6700e-003	107.8251
<b>Total</b>	<b>0.0374</b>	<b>0.0198</b>	<b>0.3158</b>	<b>9.8000e-004</b>	<b>0.1521</b>	<b>5.0000e-004</b>	<b>0.1526</b>	<b>0.0404</b>	<b>4.6000e-004</b>	<b>0.0408</b>		<b>106.9712</b>	<b>106.9712</b>	<b>2.3100e-003</b>	<b>2.6700e-003</b>	<b>107.8251</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0414	1.8229	0.5508	6.8300e-003	0.2529	9.2700e-003	0.2621	0.0728	8.8700e-003	0.0816		734.0997	734.0997	0.0178	0.1092	767.0917
Worker	0.1926	0.1019	1.6264	5.0600e-003	0.7835	2.5600e-003	0.7861	0.2078	2.3500e-003	0.2102		550.9016	550.9016	0.0119	0.0138	555.2992
<b>Total</b>	<b>0.2340</b>	<b>1.9248</b>	<b>2.1772</b>	<b>0.0119</b>	<b>1.0364</b>	<b>0.0118</b>	<b>1.0482</b>	<b>0.2806</b>	<b>0.0112</b>	<b>0.2918</b>		<b>1,285.0013</b>	<b>1,285.0013</b>	<b>0.0297</b>	<b>0.1230</b>	<b>1,322.3909</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0414	1.8229	0.5508	6.8300e-003	0.2529	9.2700e-003	0.2621	0.0728	8.8700e-003	0.0816		734.0997	734.0997	0.0178	0.1092	767.0917
Worker	0.1926	0.1019	1.6264	5.0600e-003	0.7835	2.5600e-003	0.7861	0.2078	2.3500e-003	0.2102		550.9016	550.9016	0.0119	0.0138	555.2992
<b>Total</b>	<b>0.2340</b>	<b>1.9248</b>	<b>2.1772</b>	<b>0.0119</b>	<b>1.0364</b>	<b>0.0118</b>	<b>1.0482</b>	<b>0.2806</b>	<b>0.0112</b>	<b>0.2918</b>		<b>1,285.0013</b>	<b>1,285.0013</b>	<b>0.0297</b>	<b>0.1230</b>	<b>1,322.3909</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0405	1.8037	0.5481	6.7300e-003	0.2529	9.1100e-003	0.2620	0.0728	8.7200e-003	0.0815		723.1448	723.1448	0.0176	0.1077	755.6816
Worker	0.1821	0.0966	1.5781	4.9600e-003	0.7835	2.4000e-003	0.7859	0.2078	2.2100e-003	0.2100		543.3884	543.3884	0.0111	0.0134	547.6625
<b>Total</b>	<b>0.2226</b>	<b>1.9002</b>	<b>2.1261</b>	<b>0.0117</b>	<b>1.0364</b>	<b>0.0115</b>	<b>1.0479</b>	<b>0.2806</b>	<b>0.0109</b>	<b>0.2915</b>		<b>1,266.5332</b>	<b>1,266.5332</b>	<b>0.0287</b>	<b>0.1211</b>	<b>1,303.3441</b>



Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0405	1.8037	0.5481	6.7300e-003	0.2529	9.1100e-003	0.2620	0.0728	8.7200e-003	0.0815		723.1448	723.1448	0.0176	0.1077	755.6816
Worker	0.1821	0.0966	1.5781	4.9600e-003	0.7835	2.4000e-003	0.7859	0.2078	2.2100e-003	0.2100		543.3884	543.3884	0.0111	0.0134	547.6625
<b>Total</b>	<b>0.2226</b>	<b>1.9002</b>	<b>2.1261</b>	<b>0.0117</b>	<b>1.0364</b>	<b>0.0115</b>	<b>1.0479</b>	<b>0.2806</b>	<b>0.0109</b>	<b>0.2915</b>		<b>1,266.5332</b>	<b>1,266.5332</b>	<b>0.0287</b>	<b>0.1211</b>	<b>1,303.3441</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0141	0.2298	7.2000e-004	0.1141	3.5000e-004	0.1145	0.0303	3.2000e-004	0.0306		79.1342	79.1342	1.6200e-003	1.9500e-003	79.7567
<b>Total</b>	<b>0.0265</b>	<b>0.0141</b>	<b>0.2298</b>	<b>7.2000e-004</b>	<b>0.1141</b>	<b>3.5000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.2000e-004</b>	<b>0.0306</b>		<b>79.1342</b>	<b>79.1342</b>	<b>1.6200e-003</b>	<b>1.9500e-003</b>	<b>79.7567</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0141	0.2298	7.2000e-004	0.1141	3.5000e-004	0.1145	0.0303	3.2000e-004	0.0306		79.1342	79.1342	1.6200e-003	1.9500e-003	79.7567
<b>Total</b>	<b>0.0265</b>	<b>0.0141</b>	<b>0.2298</b>	<b>7.2000e-004</b>	<b>0.1141</b>	<b>3.5000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.2000e-004</b>	<b>0.0306</b>		<b>79.1342</b>	<b>79.1342</b>	<b>1.6200e-003</b>	<b>1.9500e-003</b>	<b>79.7567</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	26.0533					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>26.1841</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0371	0.0197	0.3217	1.0100e-003	0.1598	4.9000e-004	0.1602	0.0424	4.5000e-004	0.0428		110.7879	110.7879	2.2700e-003	2.7300e-003	111.6593
<b>Total</b>	<b>0.0371</b>	<b>0.0197</b>	<b>0.3217</b>	<b>1.0100e-003</b>	<b>0.1598</b>	<b>4.9000e-004</b>	<b>0.1602</b>	<b>0.0424</b>	<b>4.5000e-004</b>	<b>0.0428</b>		<b>110.7879</b>	<b>110.7879</b>	<b>2.2700e-003</b>	<b>2.7300e-003</b>	<b>111.6593</b>

Innovation Park CNU Phase 3F - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	26.0533					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>26.0830</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0371	0.0197	0.3217	1.0100e-003	0.1598	4.9000e-004	0.1602	0.0424	4.5000e-004	0.0428		110.7879	110.7879	2.2700e-003	2.7300e-003	111.6593
<b>Total</b>	<b>0.0371</b>	<b>0.0197</b>	<b>0.3217</b>	<b>1.0100e-003</b>	<b>0.1598</b>	<b>4.9000e-004</b>	<b>0.1602</b>	<b>0.0424</b>	<b>4.5000e-004</b>	<b>0.0428</b>		<b>110.7879</b>	<b>110.7879</b>	<b>2.2700e-003</b>	<b>2.7300e-003</b>	<b>111.6593</b>

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park (w/ CNU) - Operations**

**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	466.30	1000sqft	8.35	466,304.00	0
Hospital	1,421.80	1000sqft	14.36	1,421,800.00	0
Day-Care Center	30.00	1000sqft	0.30	30,000.00	0
Elementary School	261.40	1000sqft	6.00	261,360.00	0
University/College (4yr)	5,500.00	Student	5.46	540,000.00	0
General Heavy Industry	161.00	1000sqft	2.95	161,026.00	0
Enclosed Parking Structure	718.00	Space	2.36	233,600.00	0
Enclosed Parking with Elevator	2,390.00	Space	6.22	616,000.00	0
Parking Lot	1,742.40	1000sqft	40.00	1,742,400.00	0
City Park	7.20	Acre	7.20	313,632.00	0
Health Club	487.40	1000sqft	10.80	487,380.00	0
Hotel	150.00	Room	3.77	217,800.00	0
Apartments Mid Rise	2,193.00	Dwelling Unit	26.39	2,003,036.00	5855
Condo/townhouse	474.00	Dwelling Unit	18.30	474,000.00	1266
Congregate Care (Assisted Living)	100.00	Dwelling Unit	0.58	57,600.00	267
Single Family Housing	307.00	Dwelling Unit	25.60	552,600.00	820
Strip Mall	330.20	1000sqft	5.16	330,198.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6	<b>Operational Year</b>	2035		
<b>Utility Company</b>	Sacramento Municipal Utility District				

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Operational Emissions ONLY

Land Use - Innovation Park + CNU

Construction Phase - Operations Only, Construction does not apply

Vehicle Trips - From traffic report

Energy Use - Separate CalEEMod run for energy use.

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps - four 3MW EG's w/ 50 hour permit limits for O&M

Grading -

Architectural Coating -

Trips and VMT -

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	3.10	0.00
tblEnergyUse	LightingElect	3.10	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	4.57	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	4.57	0.00

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblEnergyUse	LightingElect	4.98	0.00
tblEnergyUse	LightingElect	2.88	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	5.33	0.00
tblEnergyUse	LightingElect	3.03	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	2.17	0.00
tblEnergyUse	NT24E	2.17	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	7.20	0.00
tblEnergyUse	NT24E	5.75	0.00
tblEnergyUse	NT24E	7.20	0.00
tblEnergyUse	NT24E	6.17	0.00
tblEnergyUse	NT24E	3.33	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24E	2.98	0.00
tblEnergyUse	NT24E	2.09	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.66	0.00
tblEnergyUse	NT24NG	0.66	0.00
tblEnergyUse	NT24NG	12.42	0.00
tblEnergyUse	NT24NG	0.68	0.00
tblEnergyUse	NT24NG	12.42	0.00
tblEnergyUse	NT24NG	9.61	0.00



Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblEnergyUse	NT24NG	5.53	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.93	0.00
tblEnergyUse	NT24NG	0.23	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24E	80.14	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24E	1.83	0.00
tblEnergyUse	T24E	1.83	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24E	3.05	0.00
tblEnergyUse	T24E	4.44	0.00
tblEnergyUse	T24E	3.05	0.00
tblEnergyUse	T24E	8.20	0.00
tblEnergyUse	T24E	3.21	0.00
tblEnergyUse	T24E	142.58	0.00
tblEnergyUse	T24E	2.91	0.00
tblEnergyUse	T24E	3.01	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblEnergyUse	T24NG	16,185.01	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblEnergyUse	T24NG	14.46	0.00
tblEnergyUse	T24NG	14.46	0.00
tblEnergyUse	T24NG	23.15	0.00
tblEnergyUse	T24NG	12.30	0.00
tblEnergyUse	T24NG	23.15	0.00
tblEnergyUse	T24NG	57.33	0.00
tblEnergyUse	T24NG	32.71	0.00

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblEnergyUse	T24NG	20,971.81	0.00
tblEnergyUse	T24NG	4.44	0.00
tblEnergyUse	T24NG	25.75	0.00
tblLandUse	GreenSpaceAllowEdit	1.00	0.00
tblLandUse	LandUseSquareFeet	466,300.00	466,304.00
tblLandUse	LandUseSquareFeet	261,400.00	261,360.00
tblLandUse	LandUseSquareFeet	1,010,886.08	540,000.00
tblLandUse	LandUseSquareFeet	161,000.00	161,026.00
tblLandUse	LandUseSquareFeet	287,200.00	233,600.00
tblLandUse	LandUseSquareFeet	956,000.00	616,000.00
tblLandUse	LandUseSquareFeet	487,400.00	487,380.00
tblLandUse	LandUseSquareFeet	2,193,000.00	2,003,036.00
tblLandUse	LandUseSquareFeet	100,000.00	57,600.00
tblLandUse	LandUseSquareFeet	330,200.00	330,198.00
tblLandUse	LotAcreage	10.70	8.35
tblLandUse	LotAcreage	32.64	14.36
tblLandUse	LotAcreage	0.69	0.30
tblLandUse	LotAcreage	23.21	5.46
tblLandUse	LotAcreage	3.70	2.95
tblLandUse	LotAcreage	6.46	2.36
tblLandUse	LotAcreage	21.51	6.22
tblLandUse	LotAcreage	11.19	10.80
tblLandUse	LotAcreage	5.00	3.77
tblLandUse	LotAcreage	57.71	26.39
tblLandUse	LotAcreage	29.63	18.30
tblLandUse	LotAcreage	6.25	0.58
tblLandUse	LotAcreage	99.68	25.60
tblLandUse	LotAcreage	7.58	5.16
tblVehicleTrips	CC_TL	5.00	0.00



Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	CNW_TL	6.50	0.00
tblVehicleTrips	CNW_TL	6.50	2.69
tblVehicleTrips	CNW_TL	6.50	2.69
tblVehicleTrips	CNW_TL	6.50	0.00
tblVehicleTrips	CNW_TL	6.50	2.69
tblVehicleTrips	CNW_TL	6.50	2.69
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TL	10.00	2.69
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TL	10.00	2.69
tblVehicleTrips	CW_TL	10.00	2.69
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TL	10.00	2.69
tblVehicleTrips	CW_TL	10.00	2.69

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	12.70	0.00
tblVehicleTrips	CW_TTP	65.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	CW_TTP	64.90	100.00
tblVehicleTrips	CW_TTP	19.40	100.00
tblVehicleTrips	CW_TTP	16.60	100.00
tblVehicleTrips	CW_TTP	6.40	100.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	58.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	9.00	0.00
tblVehicleTrips	HO_TL	6.50	6.59
tblVehicleTrips	HO_TL	6.50	6.59
tblVehicleTrips	HO_TL	6.50	6.59
tblVehicleTrips	HO_TL	6.50	6.59
tblVehicleTrips	HO_TTP	41.00	0.00

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	HO_TTP	41.00	0.00
tblVehicleTrips	HO_TTP	41.00	0.00
tblVehicleTrips	HO_TTP	41.00	0.00
tblVehicleTrips	HS_TL	5.00	6.59
tblVehicleTrips	HS_TL	5.00	6.59
tblVehicleTrips	HS_TL	5.00	6.59
tblVehicleTrips	HS_TL	5.00	6.59
tblVehicleTrips	HS_TTP	12.50	0.00
tblVehicleTrips	HS_TTP	12.50	0.00
tblVehicleTrips	HS_TTP	12.50	0.00
tblVehicleTrips	HS_TTP	12.50	0.00
tblVehicleTrips	HW_TL	10.00	6.59
tblVehicleTrips	HW_TL	10.00	6.59
tblVehicleTrips	HW_TL	10.00	6.59
tblVehicleTrips	HW_TL	10.00	6.59
tblVehicleTrips	HW_TTP	46.50	100.00
tblVehicleTrips	HW_TTP	46.50	100.00
tblVehicleTrips	HW_TTP	46.50	100.00
tblVehicleTrips	HW_TTP	46.50	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	14.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	28.00	0.00
tblVehicleTrips	PR_TP	63.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	52.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	91.00	100.00
tblVehicleTrips	ST_TR	4.91	3.53
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	5.73
tblVehicleTrips	ST_TR	2.93	3.24
tblVehicleTrips	ST_TR	6.22	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	ST_TR	2.21	9.54
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	7.72	23.37
tblVehicleTrips	ST_TR	8.19	4.05
tblVehicleTrips	ST_TR	9.54	8.13
tblVehicleTrips	ST_TR	42.04	28.61

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	ST_TR	1.30	2.56
tblVehicleTrips	SU_TR	4.09	3.53
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	5.73
tblVehicleTrips	SU_TR	3.15	3.24
tblVehicleTrips	SU_TR	5.84	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	SU_TR	0.70	9.54
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	6.77	23.37
tblVehicleTrips	SU_TR	5.95	4.05
tblVehicleTrips	SU_TR	8.55	8.13
tblVehicleTrips	SU_TR	20.43	28.61
tblVehicleTrips	SU_TR	0.00	2.56
tblVehicleTrips	WD_TR	5.44	3.53
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	5.73
tblVehicleTrips	WD_TR	2.60	3.24
tblVehicleTrips	WD_TR	47.62	0.00
tblVehicleTrips	WD_TR	19.52	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblVehicleTrips	WD_TR	9.74	9.54
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	10.72	23.37
tblVehicleTrips	WD_TR	8.36	4.05
tblVehicleTrips	WD_TR	9.44	8.13
tblVehicleTrips	WD_TR	44.32	28.61
tblVehicleTrips	WD_TR	1.56	2.56



Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	186.7036	2.9281	254.1048	0.0135		1.4113	1.4113		1.4113	1.4113	0.0000	459.6405	459.6405	0.4424	0.0000	470.7008
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	93.5623	106.2847	897.5660	1.4090	194.4721	0.9212	195.3933	51.7981	0.8598	52.6579		155,281.1 454	155,281.1 454	13.4830	9.2689	158,380.3 507
Stationary	26.4212	118.1538	67.3684	0.1270		3.8866	3.8866		3.8866	3.8866		13,516.17 74	13,516.17 74	1.8950		13,563.55 16
<b>Total</b>	<b>306.6870</b>	<b>227.3666</b>	<b>1,219.039 2</b>	<b>1.5494</b>	<b>194.4721</b>	<b>6.2191</b>	<b>200.6912</b>	<b>51.7981</b>	<b>6.1578</b>	<b>57.9558</b>	<b>0.0000</b>	<b>169,256.9 633</b>	<b>169,256.9 633</b>	<b>15.8204</b>	<b>9.2689</b>	<b>172,414.6 031</b>

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	186.7036	2.9281	254.1048	0.0135		1.4113	1.4113		1.4113	1.4113	0.0000	459.6405	459.6405	0.4424	0.0000	470.7008
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	93.5623	106.2847	897.5660	1.4090	194.4721	0.9212	195.3933	51.7981	0.8598	52.6579		155,281.1 454	155,281.1 454	13.4830	9.2689	158,380.3 507
Stationary	26.4212	118.1538	67.3684	0.1270		3.8866	3.8866		3.8866	3.8866		13,516.17 74	13,516.17 74	1.8950		13,563.55 16
<b>Total</b>	<b>306.6870</b>	<b>227.3666</b>	<b>1,219.039 2</b>	<b>1.5494</b>	<b>194.4721</b>	<b>6.2191</b>	<b>200.6912</b>	<b>51.7981</b>	<b>6.1578</b>	<b>57.9558</b>	<b>0.0000</b>	<b>169,256.9 633</b>	<b>169,256.9 633</b>	<b>15.8204</b>	<b>9.2689</b>	<b>172,414.6 031</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	2/24/2023	5	200	
2	Site Preparation	Site Preparation	2/25/2023	11/3/2023	5	120	
3	Grading	Grading	11/4/2023	8/15/2025	5	310	
4	Building Construction	Building Construction	8/16/2025	6/12/2043	5	3100	

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2045**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0458	0.6909	12.0916	0.0409	7.2190	0.0128	7.2318	1.9149	0.0117	1.9267		4,639.131 4	4,639.131 4	0.0604	0.1108	4,673.669 6
<b>Total</b>	<b>1.0458</b>	<b>0.6909</b>	<b>12.0916</b>	<b>0.0409</b>	<b>7.2190</b>	<b>0.0128</b>	<b>7.2318</b>	<b>1.9149</b>	<b>0.0117</b>	<b>1.9267</b>		<b>4,639.131 4</b>	<b>4,639.131 4</b>	<b>0.0604</b>	<b>0.1108</b>	<b>4,673.669 6</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	93.5623	106.2847	897.5660	1.4090	194.4721	0.9212	195.3933	51.7981	0.8598	52.6579		155,281.1454	155,281.1454	13.4830	9.2689	158,380.3507
Unmitigated	93.5623	106.2847	897.5660	1.4090	194.4721	0.9212	195.3933	51.7981	0.8598	52.6579		155,281.1454	155,281.1454	13.4830	9.2689	158,380.3507

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	7,741.29	7,741.29	7741.29	18,569,497	18,569,497
City Park	0.00	0.00	0.00		
Condo/townhouse	2,716.02	2,716.02	2716.02	6,515,080	6,515,080
Congregate Care (Assisted Living)	324.00	324.00	324.00	777,198	777,198
Day-Care Center	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Heavy Industry	0.00	0.00	0.00		
General Office Building	4,448.50	4,448.50	4448.50	4,355,795	4,355,795
Health Club	0.00	0.00	0.00		
Hospital	33,227.47	33,227.47	33227.47	32,535,006	32,535,006
Hotel	607.50	607.50	607.50	594,840	594,840
Parking Lot	0.00	0.00	0.00		
Single Family Housing	2,495.91	2,495.91	2495.91	5,987,089	5,987,089
Strip Mall	9,447.02	9,447.02	9447.02	9,250,146	9,250,146
University/College (4yr)	14,080.00	14,080.00	14080.00	13,786,573	13,786,573
<b>Total</b>	<b>75,087.71</b>	<b>75,087.71</b>	<b>75,087.71</b>	<b>92,371,224</b>	<b>92,371,224</b>

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	6.59	6.59	6.59	100.00	0.00	0.00	100	0	0
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Condo/townhouse	6.59	6.59	6.59	100.00	0.00	0.00	100	0	0
Congregate Care (Assisted)	6.59	6.59	6.59	100.00	0.00	0.00	100	0	0
Day-Care Center	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
General Office Building	2.69	2.69	2.69	100.00	0.00	0.00	100	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Hospital	2.69	2.69	2.69	100.00	0.00	0.00	100	0	0
Hotel	2.69	2.69	2.69	100.00	0.00	0.00	100	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	6.59	6.59	6.59	100.00	0.00	0.00	100	0	0
Strip Mall	2.69	2.69	2.69	100.00	0.00	0.00	100	0	0
University/College (4yr)	2.69	2.69	2.69	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
City Park	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Condo/townhouse	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Congregate Care (Assisted Living)	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Day-Care Center	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Elementary School	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Enclosed Parking Structure	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Enclosed Parking with Elevator	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
General Heavy Industry	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

General Office Building	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Health Club	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Hospital	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Hotel	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Parking Lot	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Single Family Housing	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
Strip Mall	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329
University/College (4yr)	0.569392	0.055933	0.180999	0.118374	0.018983	0.005166	0.013198	0.009408	0.000713	0.000711	0.024057	0.000737	0.002329

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Congregate Care (Assisted Living)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Day-Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hospital	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
University/College (4yr)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Mitigated**



Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Congregate Care (Assisted Living)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Day-Care Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hospital	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
University/College (4yr)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	186.7036	2.9281	254.1048	0.0135		1.4113	1.4113		1.4113	1.4113	0.0000	459.6405	459.6405	0.4424	0.0000	470.7008
Unmitigated	186.7036	2.9281	254.1048	0.0135		1.4113	1.4113		1.4113	1.4113	0.0000	459.6405	459.6405	0.4424	0.0000	470.7008

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	21.5243					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	157.4962					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	7.6831	2.9281	254.1048	0.0135		1.4113	1.4113		1.4113	1.4113		459.6405	459.6405	0.4424		470.7008
<b>Total</b>	<b>186.7036</b>	<b>2.9281</b>	<b>254.1048</b>	<b>0.0135</b>		<b>1.4113</b>	<b>1.4113</b>		<b>1.4113</b>	<b>1.4113</b>	<b>0.0000</b>	<b>459.6405</b>	<b>459.6405</b>	<b>0.4424</b>	<b>0.0000</b>	<b>470.7008</b>

Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	21.5243					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	157.4962					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	7.6831	2.9281	254.1048	0.0135		1.4113	1.4113		1.4113	1.4113		459.6405	459.6405	0.4424		470.7008
<b>Total</b>	<b>186.7036</b>	<b>2.9281</b>	<b>254.1048</b>	<b>0.0135</b>		<b>1.4113</b>	<b>1.4113</b>		<b>1.4113</b>	<b>1.4113</b>	<b>0.0000</b>	<b>459.6405</b>	<b>459.6405</b>	<b>0.4424</b>	<b>0.0000</b>	<b>470.7008</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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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Innovation Park (w/ CNU) - Operations - Sacramento County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	1	50	4025	0.73	Diesel

**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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**10.1 Stationary Sources**

**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	26.4212	118.1538	67.3684	0.1270		3.8866	3.8866		3.8866	3.8866		13,516.1774	13,516.1774	1.8950		13,563.5516
<b>Total</b>	<b>26.4212</b>	<b>118.1538</b>	<b>67.3684</b>	<b>0.1270</b>		<b>3.8866</b>	<b>3.8866</b>		<b>3.8866</b>	<b>3.8866</b>		<b>13,516.1774</b>	<b>13,516.1774</b>	<b>1.8950</b>		<b>13,563.5516</b>

**11.0 Vegetation**

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**Appendix C3**  
Revised Emission Calculations  
with SAFE Vehicle Rule  
(Comment A8-6)

Innovation Park - Demolition - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - Demolition  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	183.80	Acre	183.80	8,006,328.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2024
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Demolition of areana

Land Use - Demo of areana only

Construction Phase - Default demolition schedule for land use type

Demolition -

Construction Off-road Equipment Mitigation - Tier 4 MM + Dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2730	2.7759	2.1348	4.6900e-003	0.2758	0.1260	0.4018	0.0453	0.1172	0.1625	0.0000	419.1173	419.1173	0.0986	0.0114	424.9771
<b>Maximum</b>	<b>0.2730</b>	<b>2.7759</b>	<b>2.1348</b>	<b>4.6900e-003</b>	<b>0.2758</b>	<b>0.1260</b>	<b>0.4018</b>	<b>0.0453</b>	<b>0.1172</b>	<b>0.1625</b>	<b>0.0000</b>	<b>419.1173</b>	<b>419.1173</b>	<b>0.0986</b>	<b>0.0114</b>	<b>424.9771</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	tons/yr										MT/yr					
2022	0.0553	0.4043	2.4034	4.6900e-003	0.1403	7.8600e-003	0.1482	0.0248	7.7900e-003	0.0326	0.0000	419.1169	419.1169	0.0986	0.0114	424.9767
<b>Maximum</b>	<b>0.0553</b>	<b>0.4043</b>	<b>2.4034</b>	<b>4.6900e-003</b>	<b>0.1403</b>	<b>7.8600e-003</b>	<b>0.1482</b>	<b>0.0248</b>	<b>7.7900e-003</b>	<b>0.0326</b>	<b>0.0000</b>	<b>419.1169</b>	<b>419.1169</b>	<b>0.0986</b>	<b>0.0114</b>	<b>424.9767</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	79.73	85.44	-12.58	0.00	49.12	93.76	63.12	45.28	93.35	79.95	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-3-2022	4-2-2022	0.9813	0.1491
2	4-3-2022	7-2-2022	0.9875	0.1459
3	7-3-2022	9-30-2022	0.9766	0.1443
		Highest	0.9875	0.1491

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0755	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5600e-003	4.5600e-003	1.0000e-005	0.0000	4.8600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0905	0.1048	0.7406	1.4200e-003	0.1445	1.1700e-003	0.1457	0.0387	1.0900e-003	0.0397	0.0000	133.5906	133.5906	0.0103	7.1600e-003	135.9822
Waste						0.0000	0.0000		0.0000	0.0000	3.2093	0.0000	3.2093	0.1897	0.0000	7.9509
Water						0.0000	0.0000		0.0000	0.0000	0.0000	124.4587	124.4587	0.0115	1.3900e-003	125.1600
<b>Total</b>	<b>0.1660</b>	<b>0.1048</b>	<b>0.7430</b>	<b>1.4200e-003</b>	<b>0.1445</b>	<b>1.1800e-003</b>	<b>0.1457</b>	<b>0.0387</b>	<b>1.1000e-003</b>	<b>0.0397</b>	<b>3.2093</b>	<b>258.0539</b>	<b>261.2632</b>	<b>0.2115</b>	<b>8.5500e-003</b>	<b>269.0979</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0755	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5600e-003	4.5600e-003	1.0000e-005	0.0000	4.8600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0905	0.1048	0.7406	1.4200e-003	0.1445	1.1700e-003	0.1457	0.0387	1.0900e-003	0.0397	0.0000	133.5906	133.5906	0.0103	7.1600e-003	135.9822
Waste						0.0000	0.0000		0.0000	0.0000	3.2093	0.0000	3.2093	0.1897	0.0000	7.9509
Water						0.0000	0.0000		0.0000	0.0000	0.0000	124.4587	124.4587	0.0115	1.3900e-003	125.1600
<b>Total</b>	<b>0.1660</b>	<b>0.1048</b>	<b>0.7430</b>	<b>1.4200e-003</b>	<b>0.1445</b>	<b>1.1800e-003</b>	<b>0.1457</b>	<b>0.0387</b>	<b>1.1000e-003</b>	<b>0.0397</b>	<b>3.2093</b>	<b>258.0539</b>	<b>261.2632</b>	<b>0.2115</b>	<b>8.5500e-003</b>	<b>269.0979</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	10/7/2022	5	200	

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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2,183.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2463	0.0000	0.2463	0.0373	0.0000	0.0373	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2639	2.5719	2.0594	3.8800e-003		0.1243	0.1243		0.1155	0.1155	0.0000	339.9023	339.9023	0.0955	0.0000	342.2892
<b>Total</b>	<b>0.2639</b>	<b>2.5719</b>	<b>2.0594</b>	<b>3.8800e-003</b>	<b>0.2463</b>	<b>0.1243</b>	<b>0.3706</b>	<b>0.0373</b>	<b>0.1155</b>	<b>0.1528</b>	<b>0.0000</b>	<b>339.9023</b>	<b>339.9023</b>	<b>0.0955</b>	<b>0.0000</b>	<b>342.2892</b>

**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	4.4800e-003	0.2010	0.0376	7.1000e-004	0.0185	1.6400e-003	0.0201	5.0700e-003	1.5700e-003	6.6400e-003	0.0000	70.1435	70.1435	2.8100e-003	0.0111	73.5273
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6200e-003	3.0100e-003	0.0378	1.0000e-004	0.0110	6.0000e-005	0.0111	2.9300e-003	6.0000e-005	2.9900e-003	0.0000	9.0716	9.0716	3.1000e-004	2.7000e-004	9.1607
<b>Total</b>	<b>9.1000e-003</b>	<b>0.2040</b>	<b>0.0754</b>	<b>8.1000e-004</b>	<b>0.0295</b>	<b>1.7000e-003</b>	<b>0.0312</b>	<b>8.0000e-003</b>	<b>1.6300e-003</b>	<b>9.6300e-003</b>	<b>0.0000</b>	<b>79.2151</b>	<b>79.2151</b>	<b>3.1200e-003</b>	<b>0.0114</b>	<b>82.6880</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1108	0.0000	0.1108	0.0168	0.0000	0.0168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0462	0.2003	2.3280	3.8800e-003		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003	0.0000	339.9019	339.9019	0.0955	0.0000	342.2887
<b>Total</b>	<b>0.0462</b>	<b>0.2003</b>	<b>2.3280</b>	<b>3.8800e-003</b>	<b>0.1108</b>	<b>6.1600e-003</b>	<b>0.1170</b>	<b>0.0168</b>	<b>6.1600e-003</b>	<b>0.0229</b>	<b>0.0000</b>	<b>339.9019</b>	<b>339.9019</b>	<b>0.0955</b>	<b>0.0000</b>	<b>342.2887</b>

**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	4.4800e-003	0.2010	0.0376	7.1000e-004	0.0185	1.6400e-003	0.0201	5.0700e-003	1.5700e-003	6.6400e-003	0.0000	70.1435	70.1435	2.8100e-003	0.0111	73.5273
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6200e-003	3.0100e-003	0.0378	1.0000e-004	0.0110	6.0000e-005	0.0111	2.9300e-003	6.0000e-005	2.9900e-003	0.0000	9.0716	9.0716	3.1000e-004	2.7000e-004	9.1607
<b>Total</b>	<b>9.1000e-003</b>	<b>0.2040</b>	<b>0.0754</b>	<b>8.1000e-004</b>	<b>0.0295</b>	<b>1.7000e-003</b>	<b>0.0312</b>	<b>8.0000e-003</b>	<b>1.6300e-003</b>	<b>9.6300e-003</b>	<b>0.0000</b>	<b>79.2151</b>	<b>79.2151</b>	<b>3.1200e-003</b>	<b>0.0114</b>	<b>82.6880</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park PUD - Part 2**

**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	91.50	1000sqft	1.83	91,476.00	0
Elementary School	65.30	1000sqft	1.50	65,340.00	0
General Light Industry	9.30	1000sqft	0.43	9,256.50	0
Parking Lot	435.60	1000sqft	10.00	435,600.00	0
City Park	1.80	Acre	1.80	78,408.00	0
Health Club	114.30	1000sqft	2.63	114,345.00	0
Hotel	38.00	Room	0.94	54,450.00	0
Apartments Mid Rise	424.00	Dwelling Unit	5.92	433,759.00	1132
Condo/townhouse	119.00	Dwelling Unit	4.58	118,500.00	318
Single Family Housing	77.00	Dwelling Unit	6.40	138,150.00	206
Strip Mall	49.50	1000sqft	0.96	49,549.50	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2030
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - One quarter build out, construction only

Land Use - 1/4 of land use

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Phase - Adjusted for 4 year schedule

Trips and VMT -

Demolition -

Grading - Acre graded = site acreage

Architectural Coating -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblGrading	AcresOfGrading	234.00	37.00
tblGrading	AcresOfGrading	42.00	0.00
tblGrading	MaterialExported	0.00	56,930.00
tblGrading	MaterialImported	0.00	111,420.00
tblLandUse	LandUseSquareFeet	91,500.00	91,476.00
tblLandUse	LandUseSquareFeet	65,300.00	65,340.00
tblLandUse	LandUseSquareFeet	9,300.00	9,256.50



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LandUseSquareFeet	114,300.00	114,345.00
tblLandUse	LandUseSquareFeet	55,176.00	54,450.00
tblLandUse	LandUseSquareFeet	424,000.00	433,759.00
tblLandUse	LandUseSquareFeet	119,000.00	118,500.00
tblLandUse	LandUseSquareFeet	138,600.00	138,150.00
tblLandUse	LandUseSquareFeet	49,500.00	49,549.50
tblLandUse	LotAcreage	2.10	1.83
tblLandUse	LotAcreage	0.21	0.43
tblLandUse	LotAcreage	2.62	2.63
tblLandUse	LotAcreage	1.27	0.94
tblLandUse	LotAcreage	11.16	5.92
tblLandUse	LotAcreage	7.44	4.58
tblLandUse	LotAcreage	25.00	6.40
tblLandUse	LotAcreage	1.14	0.96

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.1869	2.7295	1.7118	7.8100e-003	0.7027	0.0756	0.7783	0.2883	0.0701	0.3584	0.0000	737.7706	737.7706	0.1042	0.0722	761.9027
2027	0.4418	3.5220	4.3509	0.0154	0.9977	0.0883	1.0861	0.2846	0.0829	0.3675	0.0000	1,457.2352	1,457.2352	0.1151	0.1058	1,491.6376
2028	0.4239	2.9624	4.2130	0.0138	0.9094	0.0782	0.9876	0.2456	0.0736	0.3192	0.0000	1,299.9541	1,299.9541	0.0942	0.0817	1,326.6530
2029	0.3961	2.8141	3.9888	0.0128	0.8475	0.0764	0.9239	0.2289	0.0718	0.3007	0.0000	1,211.8443	1,211.8443	0.0928	0.0744	1,236.3396
2030	6.2081	0.1560	0.4073	8.2000e-004	0.0335	6.6300e-003	0.0401	8.9100e-003	6.6200e-003	0.0155	0.0000	73.4464	73.4464	2.7800e-003	5.3000e-004	73.6734
<b>Maximum</b>	<b>6.2081</b>	<b>3.5220</b>	<b>4.3509</b>	<b>0.0154</b>	<b>0.9977</b>	<b>0.0883</b>	<b>1.0861</b>	<b>0.2883</b>	<b>0.0829</b>	<b>0.3675</b>	<b>0.0000</b>	<b>1,457.2352</b>	<b>1,457.2352</b>	<b>0.1151</b>	<b>0.1058</b>	<b>1,491.6376</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2026	0.0604	1.3107	2.0261	7.8100e-003	0.3933	0.0137	0.4069	0.1509	0.0133	0.1642	0.0000	737.7702	737.7702	0.1042	0.0722	761.9024
2027	0.2935	2.0207	4.5912	0.0154	0.9378	0.0186	0.9563	0.2602	0.0179	0.2781	0.0000	1,457.2348	1,457.2348	0.1151	0.1058	1,491.6372
2028	0.2887	1.6318	4.3918	0.0138	0.9094	0.0149	0.9243	0.2456	0.0144	0.2600	0.0000	1,299.9537	1,299.9537	0.0942	0.0817	1,326.6527
2029	0.2643	1.5057	4.1810	0.0128	0.8475	0.0139	0.8614	0.2289	0.0134	0.2423	0.0000	1,211.8440	1,211.8440	0.0928	0.0744	1,236.3392
2030	6.1855	0.0297	0.4343	8.2000e-004	0.0335	9.0000e-004	0.0344	8.9100e-003	8.9000e-004	9.8000e-003	0.0000	73.4464	73.4464	2.7800e-003	5.3000e-004	73.6733
<b>Maximum</b>	<b>6.1855</b>	<b>2.0207</b>	<b>4.5912</b>	<b>0.0154</b>	<b>0.9378</b>	<b>0.0186</b>	<b>0.9563</b>	<b>0.2602</b>	<b>0.0179</b>	<b>0.2781</b>	<b>0.0000</b>	<b>1,457.2348</b>	<b>1,457.2348</b>	<b>0.1151</b>	<b>0.1058</b>	<b>1,491.6372</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>7.37</b>	<b>46.66</b>	<b>-6.49</b>	<b>0.00</b>	<b>10.58</b>	<b>80.96</b>	<b>16.58</b>	<b>15.32</b>	<b>80.36</b>	<b>29.89</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	7-1-2026	9-30-2026	0.8207	0.1519
2	10-1-2026	12-31-2026	2.0933	1.2244
3	1-1-2027	3-31-2027	1.4005	0.8553
4	4-1-2027	6-30-2027	0.8490	0.4826
5	7-1-2027	9-30-2027	0.8583	0.4879
6	10-1-2027	12-31-2027	0.8797	0.5092
7	1-1-2028	3-31-2028	0.8590	0.4926

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

8	4-1-2028	6-30-2028	0.8382	0.4718
9	7-1-2028	9-30-2028	0.8475	0.4770
10	10-1-2028	12-31-2028	0.8685	0.4980
11	1-1-2029	3-31-2029	0.8394	0.4770
12	4-1-2029	6-30-2029	0.8282	0.4618
13	7-1-2029	9-30-2029	0.8373	0.4669
14	10-1-2029	12-31-2029	0.7029	0.3640
15	1-1-2030	3-31-2030	3.3833	3.2463
16	4-1-2030	6-30-2030	2.9805	2.9696
		Highest	3.3833	3.2463

**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	5.0345	0.0736	6.3872	3.4000e-004		0.0355	0.0355		0.0355	0.0355	0.0000	10.4642	10.4642	0.0100	0.0000	10.7143
Energy	0.0916	0.8087	0.5253	4.9900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	2,144.8298	2,144.8298	0.1316	0.0305	2,157.1938
Mobile	3.7523	4.0852	31.8169	0.0633	7.7196	0.0458	7.7653	2.0627	0.0427	2.1054	0.0000	6,191.1566	6,191.1566	0.4406	0.3120	6,295.1333
Waste						0.0000	0.0000		0.0000	0.0000	249.6566	0.0000	249.6566	14.7543	0.0000	618.5136
Water						0.0000	0.0000		0.0000	0.0000	25.5066	86.1441	111.6506	0.0957	0.0564	130.8604
<b>Total</b>	<b>8.8784</b>	<b>4.9674</b>	<b>38.7295</b>	<b>0.0687</b>	<b>7.7196</b>	<b>0.1445</b>	<b>7.8641</b>	<b>2.0627</b>	<b>0.1415</b>	<b>2.2041</b>	<b>275.1631</b>	<b>8,432.5947</b>	<b>8,707.7579</b>	<b>15.4322</b>	<b>0.3988</b>	<b>9,212.4153</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.0345	0.0736	6.3872	3.4000e-004		0.0355	0.0355		0.0355	0.0355	0.0000	10.4642	10.4642	0.0100	0.0000	10.7143
Energy	0.0916	0.8087	0.5253	4.9900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	2,144.8298	2,144.8298	0.1316	0.0305	2,157.1938
Mobile	3.7523	4.0852	31.8169	0.0633	7.7196	0.0458	7.7653	2.0627	0.0427	2.1054	0.0000	6,191.1566	6,191.1566	0.4406	0.3120	6,295.1333
Waste						0.0000	0.0000		0.0000	0.0000	249.6566	0.0000	249.6566	14.7543	0.0000	618.5136
Water						0.0000	0.0000		0.0000	0.0000	25.5066	86.1441	111.6506	0.0957	0.0564	130.8604
<b>Total</b>	<b>8.8784</b>	<b>4.9674</b>	<b>38.7295</b>	<b>0.0687</b>	<b>7.7196</b>	<b>0.1445</b>	<b>7.8641</b>	<b>2.0627</b>	<b>0.1415</b>	<b>2.2041</b>	<b>275.1631</b>	<b>8,432.5947</b>	<b>8,707.7579</b>	<b>15.4322</b>	<b>0.3988</b>	<b>9,212.4153</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>

**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	7/1/2026	9/8/2026	5	50	
2	Site Preparation	Site Preparation	9/9/2026	10/20/2026	5	30	
3	Grading	Grading	10/21/2026	2/2/2027	5	75	

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4	Building Construction	Building Construction	2/3/2027	12/4/2029	5	740
5	Paving	Paving	12/5/2029	2/19/2030	5	55
6	Architectural Coating	Architectural Coating	2/20/2030	5/7/2030	5	55

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

**Acres of Grading (Grading Phase): 37**

**Acres of Paving: 10**

**Residential Indoor: 1,398,078; Residential Outdoor: 466,026; Non-Residential Indoor: 576,626; Non-Residential Outdoor: 192,209; Striped Parking Area: 26,136 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	973.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	21,044.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	782.00	214.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	156.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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					
Fugitive Dust					0.1098	0.0000	0.1098	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0523	0.4799	0.4855	9.7000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	84.9941	84.9941	0.0237	0.0000	85.5875
<b>Total</b>	<b>0.0523</b>	<b>0.4799</b>	<b>0.4855</b>	<b>9.7000e-004</b>	<b>0.1098</b>	<b>0.0213</b>	<b>0.1311</b>	<b>0.0166</b>	<b>0.0198</b>	<b>0.0364</b>	<b>0.0000</b>	<b>84.9941</b>	<b>84.9941</b>	<b>0.0237</b>	<b>0.0000</b>	<b>85.5875</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-003	0.0715	0.0157	2.9000e-004	8.2200e-003	5.3000e-004	8.7600e-003	2.2600e-003	5.1000e-004	2.7700e-003	0.0000	28.4135	28.4135	1.1400e-003	4.5100e-003	29.7848
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	8.9000e-004	4.8000e-004	7.1700e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7700e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.0523	2.0523	5.0000e-005	5.0000e-005	2.0690
<b>Total</b>	<b>2.0900e-003</b>	<b>0.0719</b>	<b>0.0229</b>	<b>3.1000e-004</b>	<b>0.0110</b>	<b>5.4000e-004</b>	<b>0.0115</b>	<b>2.9900e-003</b>	<b>5.2000e-004</b>	<b>3.5100e-003</b>	<b>0.0000</b>	<b>30.4657</b>	<b>30.4657</b>	<b>1.1900e-003</b>	<b>4.5600e-003</b>	<b>31.8538</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2026**

**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					0.0494	0.0000	0.0494	7.4800e-003	0.0000	7.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.0501	0.5820	9.7000e-004		1.5400e-003	1.5400e-003		1.5400e-003	1.5400e-003	0.0000	84.9940	84.9940	0.0237	0.0000	85.5874
<b>Total</b>	<b>0.0116</b>	<b>0.0501</b>	<b>0.5820</b>	<b>9.7000e-004</b>	<b>0.0494</b>	<b>1.5400e-003</b>	<b>0.0510</b>	<b>7.4800e-003</b>	<b>1.5400e-003</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>84.9940</b>	<b>84.9940</b>	<b>0.0237</b>	<b>0.0000</b>	<b>85.5874</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-003	0.0715	0.0157	2.9000e-004	8.2200e-003	5.3000e-004	8.7600e-003	2.2600e-003	5.1000e-004	2.7700e-003	0.0000	28.4135	28.4135	1.1400e-003	4.5100e-003	29.7848
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	8.9000e-004	4.8000e-004	7.1700e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7700e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.0523	2.0523	5.0000e-005	5.0000e-005	2.0690
<b>Total</b>	<b>2.0900e-003</b>	<b>0.0719</b>	<b>0.0229</b>	<b>3.1000e-004</b>	<b>0.0110</b>	<b>5.4000e-004</b>	<b>0.0115</b>	<b>2.9900e-003</b>	<b>5.2000e-004</b>	<b>3.5100e-003</b>	<b>0.0000</b>	<b>30.4657</b>	<b>30.4657</b>	<b>1.1900e-003</b>	<b>4.5600e-003</b>	<b>31.8538</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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					
Fugitive Dust					0.2529	0.0000	0.2529	0.1390	0.0000	0.1390	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0371	0.3785	0.2687	5.7000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	50.2005	50.2005	0.0162	0.0000	50.6064
<b>Total</b>	<b>0.0371</b>	<b>0.3785</b>	<b>0.2687</b>	<b>5.7000e-004</b>	<b>0.2529</b>	<b>0.0163</b>	<b>0.2692</b>	<b>0.1390</b>	<b>0.0150</b>	<b>0.1540</b>	<b>0.0000</b>	<b>50.2005</b>	<b>50.2005</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.6064</b>

**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	6.4000e-004	3.5000e-004	5.1600e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4776	1.4776	4.0000e-005	4.0000e-005	1.4897
<b>Total</b>	<b>6.4000e-004</b>	<b>3.5000e-004</b>	<b>5.1600e-003</b>	<b>2.0000e-005</b>	<b>1.9800e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.4776</b>	<b>1.4776</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.4897</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2026**

**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					0.1138	0.0000	0.1138	0.0626	0.0000	0.0626	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9800e-003	0.0303	0.3130	5.7000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	50.2004	50.2004	0.0162	0.0000	50.6063
<b>Total</b>	<b>6.9800e-003</b>	<b>0.0303</b>	<b>0.3130</b>	<b>5.7000e-004</b>	<b>0.1138</b>	<b>9.3000e-004</b>	<b>0.1148</b>	<b>0.0626</b>	<b>9.3000e-004</b>	<b>0.0635</b>	<b>0.0000</b>	<b>50.2004</b>	<b>50.2004</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.6063</b>

**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	6.4000e-004	3.5000e-004	5.1600e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4776	1.4776	4.0000e-005	4.0000e-005	1.4897
<b>Total</b>	<b>6.4000e-004</b>	<b>3.5000e-004</b>	<b>5.1600e-003</b>	<b>2.0000e-005</b>	<b>1.9800e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.4776</b>	<b>1.4776</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.4897</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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					
Fugitive Dust					0.1999	0.0000	0.1999	0.0943	0.0000	0.0943	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0754	0.7265	0.6846	1.6100e-003		0.0294	0.0294		0.0271	0.0271	0.0000	141.7162	141.7162	0.0458	0.0000	142.8620
<b>Total</b>	<b>0.0754</b>	<b>0.7265</b>	<b>0.6846</b>	<b>1.6100e-003</b>	<b>0.1999</b>	<b>0.0294</b>	<b>0.2293</b>	<b>0.0943</b>	<b>0.0271</b>	<b>0.1213</b>	<b>0.0000</b>	<b>141.7162</b>	<b>141.7162</b>	<b>0.0458</b>	<b>0.0000</b>	<b>142.8620</b>

**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	0.0181	1.0716	0.2351	4.3000e-003	0.1233	8.0000e-003	0.1313	0.0339	7.6500e-003	0.0415	0.0000	426.0707	426.0707	0.0171	0.0676	446.6344
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	1.2400e-003	6.7000e-004	9.9400e-003	3.0000e-005	3.8200e-003	2.0000e-005	3.8400e-003	1.0200e-003	2.0000e-005	1.0300e-003	0.0000	2.8458	2.8458	7.0000e-005	7.0000e-005	2.8690
<b>Total</b>	<b>0.0193</b>	<b>1.0723</b>	<b>0.2451</b>	<b>4.3300e-003</b>	<b>0.1271</b>	<b>8.0200e-003</b>	<b>0.1351</b>	<b>0.0349</b>	<b>7.6700e-003</b>	<b>0.0426</b>	<b>0.0000</b>	<b>428.9165</b>	<b>428.9165</b>	<b>0.0171</b>	<b>0.0677</b>	<b>449.5034</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2026**

**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					0.0899	0.0000	0.0899	0.0424	0.0000	0.0424	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.0858	0.8580	1.6100e-003		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	141.7160	141.7160	0.0458	0.0000	142.8618
<b>Total</b>	<b>0.0198</b>	<b>0.0858</b>	<b>0.8580</b>	<b>1.6100e-003</b>	<b>0.0899</b>	<b>2.6400e-003</b>	<b>0.0926</b>	<b>0.0424</b>	<b>2.6400e-003</b>	<b>0.0451</b>	<b>0.0000</b>	<b>141.7160</b>	<b>141.7160</b>	<b>0.0458</b>	<b>0.0000</b>	<b>142.8618</b>

**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	0.0181	1.0716	0.2351	4.3000e-003	0.1233	8.0000e-003	0.1313	0.0339	7.6500e-003	0.0415	0.0000	426.0707	426.0707	0.0171	0.0676	446.6344
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	1.2400e-003	6.7000e-004	9.9400e-003	3.0000e-005	3.8200e-003	2.0000e-005	3.8400e-003	1.0200e-003	2.0000e-005	1.0300e-003	0.0000	2.8458	2.8458	7.0000e-005	7.0000e-005	2.8690
<b>Total</b>	<b>0.0193</b>	<b>1.0723</b>	<b>0.2451</b>	<b>4.3300e-003</b>	<b>0.1271</b>	<b>8.0200e-003</b>	<b>0.1351</b>	<b>0.0349</b>	<b>7.6700e-003</b>	<b>0.0426</b>	<b>0.0000</b>	<b>428.9165</b>	<b>428.9165</b>	<b>0.0171</b>	<b>0.0677</b>	<b>449.5034</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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					
Fugitive Dust					0.1091	0.0000	0.1091	0.0443	0.0000	0.0443	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.3213	0.3028	7.1000e-004		0.0130	0.0130		0.0120	0.0120	0.0000	62.6821	62.6821	0.0203	0.0000	63.1890
<b>Total</b>	<b>0.0334</b>	<b>0.3213</b>	<b>0.3028</b>	<b>7.1000e-004</b>	<b>0.1091</b>	<b>0.0130</b>	<b>0.1221</b>	<b>0.0443</b>	<b>0.0120</b>	<b>0.0563</b>	<b>0.0000</b>	<b>62.6821</b>	<b>62.6821</b>	<b>0.0203</b>	<b>0.0000</b>	<b>63.1890</b>

**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	7.8000e-003	0.4617	0.1040	1.8600e-003	0.0545	3.4600e-003	0.0580	0.0150	3.3100e-003	0.0183	0.0000	184.1875	184.1875	7.3700e-003	0.0292	193.0773
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	5.2000e-004	2.7000e-004	4.1600e-003	1.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.2305	1.2305	3.0000e-005	3.0000e-005	1.2402
<b>Total</b>	<b>8.3200e-003</b>	<b>0.4620</b>	<b>0.1082</b>	<b>1.8700e-003</b>	<b>0.0562</b>	<b>3.4700e-003</b>	<b>0.0597</b>	<b>0.0154</b>	<b>3.3200e-003</b>	<b>0.0187</b>	<b>0.0000</b>	<b>185.4180</b>	<b>185.4180</b>	<b>7.4000e-003</b>	<b>0.0292</b>	<b>194.3175</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2027**

**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					0.0491	0.0000	0.0491	0.0200	0.0000	0.0200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7600e-003	0.0380	0.3795	7.1000e-004		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003	0.0000	62.6821	62.6821	0.0203	0.0000	63.1889
<b>Total</b>	<b>8.7600e-003</b>	<b>0.0380</b>	<b>0.3795</b>	<b>7.1000e-004</b>	<b>0.0491</b>	<b>1.1700e-003</b>	<b>0.0502</b>	<b>0.0200</b>	<b>1.1700e-003</b>	<b>0.0211</b>	<b>0.0000</b>	<b>62.6821</b>	<b>62.6821</b>	<b>0.0203</b>	<b>0.0000</b>	<b>63.1889</b>

**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	7.8000e-003	0.4617	0.1040	1.8600e-003	0.0545	3.4600e-003	0.0580	0.0150	3.3100e-003	0.0183	0.0000	184.1875	184.1875	7.3700e-003	0.0292	193.0773
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	5.2000e-004	2.7000e-004	4.1600e-003	1.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.2305	1.2305	3.0000e-005	3.0000e-005	1.2402
<b>Total</b>	<b>8.3200e-003</b>	<b>0.4620</b>	<b>0.1082</b>	<b>1.8700e-003</b>	<b>0.0562</b>	<b>3.4700e-003</b>	<b>0.0597</b>	<b>0.0154</b>	<b>3.3200e-003</b>	<b>0.0187</b>	<b>0.0000</b>	<b>185.4180</b>	<b>185.4180</b>	<b>7.4000e-003</b>	<b>0.0292</b>	<b>194.3175</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.1627	1.4839	1.9141	3.2100e-003		0.0628	0.0628		0.0591	0.0591	0.0000	275.9842	275.9842	0.0649	0.0000	277.6060
<b>Total</b>	<b>0.1627</b>	<b>1.4839</b>	<b>1.9141</b>	<b>3.2100e-003</b>		<b>0.0628</b>	<b>0.0628</b>		<b>0.0591</b>	<b>0.0591</b>	<b>0.0000</b>	<b>275.9842</b>	<b>275.9842</b>	<b>0.0649</b>	<b>0.0000</b>	<b>277.6060</b>

**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	0.0286	1.1456	0.3411	4.4700e-003	0.1490	6.0800e-003	0.1551	0.0431	5.8200e-003	0.0489	0.0000	435.3004	435.3004	0.0106	0.0644	454.7485
Worker	0.2088	0.1092	1.6847	5.1800e-003	0.6835	2.9900e-003	0.6865	0.1818	2.7600e-003	0.1845	0.0000	497.8505	497.8505	0.0120	0.0122	501.7767
<b>Total</b>	<b>0.2374</b>	<b>1.2548</b>	<b>2.0258</b>	<b>9.6500e-003</b>	<b>0.8325</b>	<b>9.0700e-003</b>	<b>0.8416</b>	<b>0.2249</b>	<b>8.5800e-003</b>	<b>0.2334</b>	<b>0.0000</b>	<b>933.1509</b>	<b>933.1509</b>	<b>0.0225</b>	<b>0.0766</b>	<b>956.5251</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2027**

**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	0.2659	2.0778	3.2100e-003		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	275.9838	275.9838	0.0649	0.0000	277.6057
<b>Total</b>	<b>0.0390</b>	<b>0.2659</b>	<b>2.0778</b>	<b>3.2100e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>275.9838</b>	<b>275.9838</b>	<b>0.0649</b>	<b>0.0000</b>	<b>277.6057</b>

**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	0.0286	1.1456	0.3411	4.4700e-003	0.1490	6.0800e-003	0.1551	0.0431	5.8200e-003	0.0489	0.0000	435.3004	435.3004	0.0106	0.0644	454.7485
Worker	0.2088	0.1092	1.6847	5.1800e-003	0.6835	2.9900e-003	0.6865	0.1818	2.7600e-003	0.1845	0.0000	497.8505	497.8505	0.0120	0.0122	501.7767
<b>Total</b>	<b>0.2374</b>	<b>1.2548</b>	<b>2.0258</b>	<b>9.6500e-003</b>	<b>0.8325</b>	<b>9.0700e-003</b>	<b>0.8416</b>	<b>0.2249</b>	<b>8.5800e-003</b>	<b>0.2334</b>	<b>0.0000</b>	<b>933.1509</b>	<b>933.1509</b>	<b>0.0225</b>	<b>0.0766</b>	<b>956.5251</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
<b>Total</b>	<b>0.1778</b>	<b>1.6211</b>	<b>2.0910</b>	<b>3.5000e-003</b>		<b>0.0686</b>	<b>0.0686</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>301.4953</b>	<b>301.4953</b>	<b>0.0709</b>	<b>0.0000</b>	<b>303.2671</b>

**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	0.0303	1.2313	0.3673	4.7800e-003	0.1628	6.5000e-003	0.1693	0.0471	6.2200e-003	0.0533	0.0000	465.7735	465.7735	0.0113	0.0690	486.6156
Worker	0.2158	0.1100	1.7547	5.5100e-003	0.7466	3.0700e-003	0.7497	0.1986	2.8300e-003	0.2014	0.0000	532.6853	532.6853	0.0120	0.0127	536.7703
<b>Total</b>	<b>0.2461</b>	<b>1.3413</b>	<b>2.1220</b>	<b>0.0103</b>	<b>0.9094</b>	<b>9.5700e-003</b>	<b>0.9190</b>	<b>0.2456</b>	<b>9.0500e-003</b>	<b>0.2547</b>	<b>0.0000</b>	<b>998.4588</b>	<b>998.4588</b>	<b>0.0234</b>	<b>0.0817</b>	<b>1,023.3859</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
<b>Total</b>	<b>0.0426</b>	<b>0.2905</b>	<b>2.2698</b>	<b>3.5000e-003</b>		<b>5.3000e-003</b>	<b>5.3000e-003</b>		<b>5.3000e-003</b>	<b>5.3000e-003</b>	<b>0.0000</b>	<b>301.4949</b>	<b>301.4949</b>	<b>0.0709</b>	<b>0.0000</b>	<b>303.2667</b>

**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	0.0303	1.2313	0.3673	4.7800e-003	0.1628	6.5000e-003	0.1693	0.0471	6.2200e-003	0.0533	0.0000	465.7735	465.7735	0.0113	0.0690	486.6156
Worker	0.2158	0.1100	1.7547	5.5100e-003	0.7466	3.0700e-003	0.7497	0.1986	2.8300e-003	0.2014	0.0000	532.6853	532.6853	0.0120	0.0127	536.7703
<b>Total</b>	<b>0.2461</b>	<b>1.3413</b>	<b>2.1220</b>	<b>0.0103</b>	<b>0.9094</b>	<b>9.5700e-003</b>	<b>0.9190</b>	<b>0.2456</b>	<b>9.0500e-003</b>	<b>0.2547</b>	<b>0.0000</b>	<b>998.4588</b>	<b>998.4588</b>	<b>0.0234</b>	<b>0.0817</b>	<b>1,023.3859</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	0.1655	1.5088	1.9462	3.2600e-003		0.0638	0.0638		0.0601	0.0601	0.0000	280.6225	280.6225	0.0660	0.0000	282.2717
<b>Total</b>	<b>0.1655</b>	<b>1.5088</b>	<b>1.9462</b>	<b>3.2600e-003</b>		<b>0.0638</b>	<b>0.0638</b>		<b>0.0601</b>	<b>0.0601</b>	<b>0.0000</b>	<b>280.6225</b>	<b>280.6225</b>	<b>0.0660</b>	<b>0.0000</b>	<b>282.2717</b>

**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	0.0274	1.1286	0.3376	4.3600e-003	0.1515	5.9300e-003	0.1574	0.0438	5.6700e-003	0.0495	0.0000	425.0217	425.0217	0.0103	0.0630	444.0671
Worker	0.1897	0.0950	1.5641	4.9900e-003	0.6949	2.6800e-003	0.6976	0.1848	2.4700e-003	0.1873	0.0000	486.4492	486.4492	0.0104	0.0114	490.0907
<b>Total</b>	<b>0.2171</b>	<b>1.2236</b>	<b>1.9017</b>	<b>9.3500e-003</b>	<b>0.8464</b>	<b>8.6100e-003</b>	<b>0.8550</b>	<b>0.2286</b>	<b>8.1400e-003</b>	<b>0.2368</b>	<b>0.0000</b>	<b>911.4709</b>	<b>911.4709</b>	<b>0.0207</b>	<b>0.0744</b>	<b>934.1578</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	0.0397	0.2704	2.1127	3.2600e-003		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	280.6222	280.6222	0.0660	0.0000	282.2713
<b>Total</b>	<b>0.0397</b>	<b>0.2704</b>	<b>2.1127</b>	<b>3.2600e-003</b>		<b>4.9400e-003</b>	<b>4.9400e-003</b>		<b>4.9400e-003</b>	<b>4.9400e-003</b>	<b>0.0000</b>	<b>280.6222</b>	<b>280.6222</b>	<b>0.0660</b>	<b>0.0000</b>	<b>282.2713</b>

**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	0.0274	1.1286	0.3376	4.3600e-003	0.1515	5.9300e-003	0.1574	0.0438	5.6700e-003	0.0495	0.0000	425.0217	425.0217	0.0103	0.0630	444.0671
Worker	0.1897	0.0950	1.5641	4.9900e-003	0.6949	2.6800e-003	0.6976	0.1848	2.4700e-003	0.1873	0.0000	486.4492	486.4492	0.0104	0.0114	490.0907
<b>Total</b>	<b>0.2171</b>	<b>1.2236</b>	<b>1.9017</b>	<b>9.3500e-003</b>	<b>0.8464</b>	<b>8.6100e-003</b>	<b>0.8550</b>	<b>0.2286</b>	<b>8.1400e-003</b>	<b>0.2368</b>	<b>0.0000</b>	<b>911.4709</b>	<b>911.4709</b>	<b>0.0207</b>	<b>0.0744</b>	<b>934.1578</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**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	8.6900e-003	0.0815	0.1385	2.2000e-004		3.9800e-003	3.9800e-003		3.6600e-003	3.6600e-003	0.0000	19.0183	19.0183	6.1500e-003	0.0000	19.1721
Paving	4.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0132</b>	<b>0.0815</b>	<b>0.1385</b>	<b>2.2000e-004</b>		<b>3.9800e-003</b>	<b>3.9800e-003</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>19.0183</b>	<b>19.0183</b>	<b>6.1500e-003</b>	<b>0.0000</b>	<b>19.1721</b>

**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	2.9000e-004	1.4000e-004	2.3600e-003	1.0000e-005	1.0500e-003	0.0000	1.0500e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.7326	0.7326	2.0000e-005	2.0000e-005	0.7381
<b>Total</b>	<b>2.9000e-004</b>	<b>1.4000e-004</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>1.0500e-003</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.7326</b>	<b>0.7326</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7381</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**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	2.6600e-003	0.0116	0.1643	2.2000e-004		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	19.0183	19.0183	6.1500e-003	0.0000	19.1720
Paving	4.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.1900e-003</b>	<b>0.0116</b>	<b>0.1643</b>	<b>2.2000e-004</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>19.0183</b>	<b>19.0183</b>	<b>6.1500e-003</b>	<b>0.0000</b>	<b>19.1720</b>

**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	2.9000e-004	1.4000e-004	2.3600e-003	1.0000e-005	1.0500e-003	0.0000	1.0500e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.7326	0.7326	2.0000e-005	2.0000e-005	0.7381
<b>Total</b>	<b>2.9000e-004</b>	<b>1.4000e-004</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>1.0500e-003</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.7326</b>	<b>0.7326</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7381</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**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	0.0249	0.1282	0.2853	5.0000e-004		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003	0.0000	43.3791	43.3791	2.0300e-003	0.0000	43.4300
Paving	8.5700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0335</b>	<b>0.1282</b>	<b>0.2853</b>	<b>5.0000e-004</b>		<b>5.9500e-003</b>	<b>5.9500e-003</b>		<b>5.9500e-003</b>	<b>5.9500e-003</b>	<b>0.0000</b>	<b>43.3791</b>	<b>43.3791</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>43.4300</b>

**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	5.1000e-004	2.5000e-004	4.3000e-003	1.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.3000e-004	0.0000	1.3646	1.3646	3.0000e-005	3.0000e-005	1.3746
<b>Total</b>	<b>5.1000e-004</b>	<b>2.5000e-004</b>	<b>4.3000e-003</b>	<b>1.0000e-005</b>	<b>1.9800e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.3646</b>	<b>1.3646</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3746</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.0500e-003	0.0219	0.3113	5.0000e-004		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	43.3791	43.3791	2.0300e-003	0.0000	43.4299
Paving	8.5700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0136</b>	<b>0.0219</b>	<b>0.3113</b>	<b>5.0000e-004</b>		<b>6.7000e-004</b>	<b>6.7000e-004</b>		<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>43.3791</b>	<b>43.3791</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>43.4299</b>

**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	5.1000e-004	2.5000e-004	4.3000e-003	1.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.3000e-004	0.0000	1.3646	1.3646	3.0000e-005	3.0000e-005	1.3746
<b>Total</b>	<b>5.1000e-004</b>	<b>2.5000e-004</b>	<b>4.3000e-003</b>	<b>1.0000e-005</b>	<b>1.9800e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.3646</b>	<b>1.3646</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3746</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	6.1624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-003	0.0236	0.0494	8.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	7.0215	7.0215	2.8000e-004	0.0000	7.0286
<b>Total</b>	<b>6.1660</b>	<b>0.0236</b>	<b>0.0494</b>	<b>8.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>7.0215</b>	<b>7.0215</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>7.0286</b>

**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	8.1200e-003	4.0300e-003	0.0683	2.2000e-004	0.0315	1.1000e-004	0.0316	8.3800e-003	1.0000e-004	8.4800e-003	0.0000	21.6813	21.6813	4.4000e-004	5.0000e-004	21.8403
<b>Total</b>	<b>8.1200e-003</b>	<b>4.0300e-003</b>	<b>0.0683</b>	<b>2.2000e-004</b>	<b>0.0315</b>	<b>1.1000e-004</b>	<b>0.0316</b>	<b>8.3800e-003</b>	<b>1.0000e-004</b>	<b>8.4800e-003</b>	<b>0.0000</b>	<b>21.6813</b>	<b>21.6813</b>	<b>4.4000e-004</b>	<b>5.0000e-004</b>	<b>21.8403</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	6.1624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2000e-004	3.5400e-003	0.0504	8.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.0214	7.0214	2.8000e-004	0.0000	7.0285
<b>Total</b>	<b>6.1632</b>	<b>3.5400e-003</b>	<b>0.0504</b>	<b>8.0000e-005</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>7.0214</b>	<b>7.0214</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>7.0285</b>

**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	8.1200e-003	4.0300e-003	0.0683	2.2000e-004	0.0315	1.1000e-004	0.0316	8.3800e-003	1.0000e-004	8.4800e-003	0.0000	21.6813	21.6813	4.4000e-004	5.0000e-004	21.8403
<b>Total</b>	<b>8.1200e-003</b>	<b>4.0300e-003</b>	<b>0.0683</b>	<b>2.2000e-004</b>	<b>0.0315</b>	<b>1.1000e-004</b>	<b>0.0316</b>	<b>8.3800e-003</b>	<b>1.0000e-004</b>	<b>8.4800e-003</b>	<b>0.0000</b>	<b>21.6813</b>	<b>21.6813</b>	<b>4.4000e-004</b>	<b>5.0000e-004</b>	<b>21.8403</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park PUD - Part 3**

**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	91.50	1000sqft	1.83	91,476.00	0
Elementary School	65.30	1000sqft	1.50	65,340.00	0
General Light Industry	9.30	1000sqft	0.43	9,256.50	0
Parking Lot	435.60	1000sqft	10.00	435,600.00	0
City Park	1.80	Acre	1.80	78,408.00	0
Health Club	114.30	1000sqft	2.63	114,345.00	0
Hotel	38.00	Room	0.94	54,450.00	0
Apartments Mid Rise	424.00	Dwelling Unit	5.92	433,759.00	1132
Condo/townhouse	119.00	Dwelling Unit	4.58	118,500.00	318
Single Family Housing	77.00	Dwelling Unit	6.40	138,150.00	206
Strip Mall	49.50	1000sqft	0.96	49,549.50	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2034
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - One quarter build out, construction only

Land Use - 1/4 of land use

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Phase - Adjusted for 4 year schedule

Trips and VMT -

Demolition -

Grading - Acre graded = site acreage

Architectural Coating -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	740.00	784.00
tblConstructionPhase	NumDays	75.00	78.00
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	30.00	28.00
tblGrading	AcresOfGrading	234.00	37.00
tblGrading	AcresOfGrading	42.00	0.00
tblGrading	MaterialExported	0.00	56,930.00
tblGrading	MaterialImported	0.00	111,420.00
tblLandUse	LandUseSquareFeet	91,500.00	91,476.00
tblLandUse	LandUseSquareFeet	65,300.00	65,340.00
tblLandUse	LandUseSquareFeet	9,300.00	9,256.50
tblLandUse	LandUseSquareFeet	114,300.00	114,345.00
tblLandUse	LandUseSquareFeet	55,176.00	54,450.00
tblLandUse	LandUseSquareFeet	424,000.00	433,759.00
tblLandUse	LandUseSquareFeet	119,000.00	118,500.00
tblLandUse	LandUseSquareFeet	138,600.00	138,150.00
tblLandUse	LandUseSquareFeet	49,500.00	49,549.50

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LotAcreage	2.10	1.83
tblLandUse	LotAcreage	0.21	0.43
tblLandUse	LotAcreage	2.62	2.63
tblLandUse	LotAcreage	1.27	0.94
tblLandUse	LotAcreage	11.16	5.92
tblLandUse	LotAcreage	7.44	4.58
tblLandUse	LotAcreage	25.00	6.40
tblLandUse	LotAcreage	1.14	0.96

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.1944	1.8526	1.5925	7.9500e-003	0.7022	0.0359	0.7381	0.2881	0.0356	0.3237	0.0000	754.0780	754.0780	0.0311	0.0662	774.5707
2031	0.3930	2.6908	4.0492	0.0150	0.9947	0.0345	1.0291	0.2838	0.0339	0.3178	0.0000	1,424.4074	1,424.4074	0.0412	0.0972	1,454.4016
2032	0.3717	2.3019	4.0019	0.0136	0.9164	0.0279	0.9442	0.2475	0.0274	0.2749	0.0000	1,284.6929	1,284.6929	0.0336	0.0764	1,308.2845
2033	0.3597	2.2699	3.9301	0.0134	0.9094	0.0274	0.9368	0.2456	0.0270	0.2726	0.0000	1,263.0160	1,263.0160	0.0326	0.0747	1,286.1025
2034	6.2563	0.4318	0.9062	2.3100e-003	0.1207	0.0120	0.1327	0.0325	0.0120	0.0444	0.0000	212.7933	212.7933	6.7000e-003	7.5700e-003	215.2179
<b>Maximum</b>	<b>6.2563</b>	<b>2.6908</b>	<b>4.0492</b>	<b>0.0150</b>	<b>0.9947</b>	<b>0.0359</b>	<b>1.0291</b>	<b>0.2881</b>	<b>0.0356</b>	<b>0.3237</b>	<b>0.0000</b>	<b>1,424.4074</b>	<b>1,424.4074</b>	<b>0.0412</b>	<b>0.0972</b>	<b>1,454.4016</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2030	0.0585	1.2104	2.0350	7.9500e-003	0.3929	0.0130	0.4059	0.1507	0.0126	0.1634	0.0000	754.0776	754.0776	0.0311	0.0662	774.5703
2031	0.2465	1.8888	4.3233	0.0150	0.9345	0.0171	0.9517	0.2594	0.0166	0.2759	0.0000	1,424.4069	1,424.4069	0.0412	0.0972	1,454.4011
2032	0.2432	1.5553	4.1727	0.0136	0.9164	0.0138	0.9302	0.2475	0.0133	0.2608	0.0000	1,284.6925	1,284.6925	0.0336	0.0764	1,308.2841
2033	0.2321	1.5289	4.0996	0.0134	0.9094	0.0135	0.9228	0.2456	0.0130	0.2586	0.0000	1,263.0156	1,263.0156	0.0326	0.0747	1,286.1021
2034	6.2121	0.1848	0.9618	2.3100e-003	0.1207	2.4600e-003	0.1232	0.0325	2.4100e-003	0.0349	0.0000	212.7932	212.7932	6.7000e-003	7.5700e-003	215.2177
<b>Maximum</b>	<b>6.2121</b>	<b>1.8888</b>	<b>4.3233</b>	<b>0.0150</b>	<b>0.9345</b>	<b>0.0171</b>	<b>0.9517</b>	<b>0.2594</b>	<b>0.0166</b>	<b>0.2759</b>	<b>0.0000</b>	<b>1,424.4069</b>	<b>1,424.4069</b>	<b>0.0412</b>	<b>0.0972</b>	<b>1,454.4011</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>7.69</b>	<b>33.30</b>	<b>-7.68</b>	<b>0.00</b>	<b>10.14</b>	<b>56.56</b>	<b>11.83</b>	<b>14.75</b>	<b>57.33</b>	<b>19.43</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	7-1-2030	9-30-2030	0.4769	0.1419
2	10-1-2030	12-31-2030	1.5782	1.1457
3	1-1-2031	3-31-2031	1.0761	0.7838
4	4-1-2031	6-30-2031	0.6615	0.4444
5	7-1-2031	9-30-2031	0.6688	0.4492
6	10-1-2031	12-31-2031	0.6893	0.4698
7	1-1-2032	3-31-2032	0.6746	0.4574



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

8	4-1-2032	6-30-2032	0.6542	0.4371
9	7-1-2032	9-30-2032	0.6614	0.4419
10	10-1-2032	12-31-2032	0.6820	0.4624
11	1-1-2033	3-31-2033	0.6611	0.4464
12	4-1-2033	6-30-2033	0.6481	0.4310
13	7-1-2033	9-30-2033	0.6552	0.4357
14	10-1-2033	12-31-2033	0.6758	0.4563
15	1-1-2034	3-31-2034	0.4219	0.2056
16	4-1-2034	6-30-2034	6.0763	6.0075
17	7-1-2034	9-30-2034	0.2506	0.2497
		Highest	6.0763	6.0075

**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	5.0345	0.0736	6.3872	3.4000e-004		0.0355	0.0355		0.0355	0.0355	0.0000	10.4642	10.4642	0.0100	0.0000	10.7143
Energy	0.0916	0.8087	0.5253	4.9900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	2,144.8298	2,144.8298	0.1316	0.0305	2,157.1938
Mobile	3.2972	3.5852	29.3753	0.0585	7.7154	0.0370	7.7523	2.0609	0.0346	2.0954	0.0000	5,828.3031	5,828.3031	0.4022	0.2892	5,924.5281
Waste						0.0000	0.0000		0.0000	0.0000	249.6566	0.0000	249.6566	14.7543	0.0000	618.5136
Water						0.0000	0.0000		0.0000	0.0000	25.5066	86.1441	111.6506	0.0957	0.0564	130.8604
<b>Total</b>	<b>8.4233</b>	<b>4.4674</b>	<b>36.2879</b>	<b>0.0638</b>	<b>7.7154</b>	<b>0.1357</b>	<b>7.8511</b>	<b>2.0609</b>	<b>0.1333</b>	<b>2.1942</b>	<b>275.1631</b>	<b>8,069.7412</b>	<b>8,344.9043</b>	<b>15.3938</b>	<b>0.3760</b>	<b>8,841.8101</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.0345	0.0736	6.3872	3.4000e-004		0.0355	0.0355		0.0355	0.0355	0.0000	10.4642	10.4642	0.0100	0.0000	10.7143
Energy	0.0916	0.8087	0.5253	4.9900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	2,144.8298	2,144.8298	0.1316	0.0305	2,157.1938
Mobile	3.2972	3.5852	29.3753	0.0585	7.7154	0.0370	7.7523	2.0609	0.0346	2.0954	0.0000	5,828.3031	5,828.3031	0.4022	0.2892	5,924.5281
Waste						0.0000	0.0000		0.0000	0.0000	249.6566	0.0000	249.6566	14.7543	0.0000	618.5136
Water						0.0000	0.0000		0.0000	0.0000	25.5066	86.1441	111.6506	0.0957	0.0564	130.8604
<b>Total</b>	<b>8.4233</b>	<b>4.4674</b>	<b>36.2879</b>	<b>0.0638</b>	<b>7.7154</b>	<b>0.1357</b>	<b>7.8511</b>	<b>2.0609</b>	<b>0.1333</b>	<b>2.1942</b>	<b>275.1631</b>	<b>8,069.7412</b>	<b>8,344.9043</b>	<b>15.3938</b>	<b>0.3760</b>	<b>8,841.8101</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>

**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	7/1/2030	9/6/2030	5	50	
2	Site Preparation	Site Preparation	9/9/2030	10/16/2030	5	28	
3	Grading	Grading	10/17/2030	2/3/2031	5	78	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Building Construction	Building Construction	2/4/2031	2/3/2034	5	784
5	Paving	Paving	2/6/2034	4/19/2034	5	53
6	Architectural Coating	Architectural Coating	4/20/2034	7/3/2034	5	53

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

**Acres of Grading (Grading Phase): 37**

**Acres of Paving: 10**

**Residential Indoor: 1,398,078; Residential Outdoor: 466,026; Non-Residential Indoor: 576,626; Non-Residential Outdoor: 192,209; Striped Parking Area: 26,136 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	973.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	21,044.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	782.00	214.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	156.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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					0.1098	0.0000	0.1098	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0519	0.2444	0.4729	1.1600e-003		8.7800e-003	8.7800e-003		8.7800e-003	8.7800e-003	0.0000	99.3046	99.3046	4.1900e-003	0.0000	99.4093
<b>Total</b>	<b>0.0519</b>	<b>0.2444</b>	<b>0.4729</b>	<b>1.1600e-003</b>	<b>0.1098</b>	<b>8.7800e-003</b>	<b>0.1186</b>	<b>0.0166</b>	<b>8.7800e-003</b>	<b>0.0254</b>	<b>0.0000</b>	<b>99.3046</b>	<b>99.3046</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>99.4093</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-003	0.0652	0.0157	2.6000e-004	8.2200e-003	4.9000e-004	8.7000e-003	2.2600e-003	4.7000e-004	2.7200e-003	0.0000	26.0556	26.0556	1.0600e-003	4.1300e-003	27.3138
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	3.5000e-004	5.9700e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	1.8952	1.8952	4.0000e-005	4.0000e-005	1.9091
<b>Total</b>	<b>1.8100e-003</b>	<b>0.0656</b>	<b>0.0217</b>	<b>2.8000e-004</b>	<b>0.0110</b>	<b>5.0000e-004</b>	<b>0.0115</b>	<b>2.9900e-003</b>	<b>4.8000e-004</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>27.9508</b>	<b>27.9508</b>	<b>1.1000e-003</b>	<b>4.1700e-003</b>	<b>29.2229</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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					0.0494	0.0000	0.0494	7.4800e-003	0.0000	7.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.0501	0.5820	1.1600e-003		1.5400e-003	1.5400e-003		1.5400e-003	1.5400e-003	0.0000	99.3045	99.3045	4.1900e-003	0.0000	99.4092
<b>Total</b>	<b>0.0116</b>	<b>0.0501</b>	<b>0.5820</b>	<b>1.1600e-003</b>	<b>0.0494</b>	<b>1.5400e-003</b>	<b>0.0510</b>	<b>7.4800e-003</b>	<b>1.5400e-003</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>99.3045</b>	<b>99.3045</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>99.4092</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-003	0.0652	0.0157	2.6000e-004	8.2200e-003	4.9000e-004	8.7000e-003	2.2600e-003	4.7000e-004	2.7200e-003	0.0000	26.0556	26.0556	1.0600e-003	4.1300e-003	27.3138
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	3.5000e-004	5.9700e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	1.8952	1.8952	4.0000e-005	4.0000e-005	1.9091
<b>Total</b>	<b>1.8100e-003</b>	<b>0.0656</b>	<b>0.0217</b>	<b>2.8000e-004</b>	<b>0.0110</b>	<b>5.0000e-004</b>	<b>0.0115</b>	<b>2.9900e-003</b>	<b>4.8000e-004</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>27.9508</b>	<b>27.9508</b>	<b>1.1000e-003</b>	<b>4.1700e-003</b>	<b>29.2229</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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					0.2529	0.0000	0.2529	0.1390	0.0000	0.1390	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0342	0.1914	0.2281	6.5000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	56.0065	56.0065	2.7600e-003	0.0000	56.0756
<b>Total</b>	<b>0.0342</b>	<b>0.1914</b>	<b>0.2281</b>	<b>6.5000e-004</b>	<b>0.2529</b>	<b>6.1100e-003</b>	<b>0.2590</b>	<b>0.1390</b>	<b>6.1100e-003</b>	<b>0.1451</b>	<b>0.0000</b>	<b>56.0065</b>	<b>56.0065</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>56.0756</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.4000e-004	4.0100e-003	1.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.2736	1.2736	3.0000e-005	3.0000e-005	1.2829
<b>Total</b>	<b>4.8000e-004</b>	<b>2.4000e-004</b>	<b>4.0100e-003</b>	<b>1.0000e-005</b>	<b>1.8500e-003</b>	<b>1.0000e-005</b>	<b>1.8600e-003</b>	<b>4.9000e-004</b>	<b>1.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.2736</b>	<b>1.2736</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2829</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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					0.1138	0.0000	0.1138	0.0626	0.0000	0.0626	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0282	0.2922	6.5000e-004		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	56.0064	56.0064	2.7600e-003	0.0000	56.0755
<b>Total</b>	<b>6.5200e-003</b>	<b>0.0282</b>	<b>0.2922</b>	<b>6.5000e-004</b>	<b>0.1138</b>	<b>8.7000e-004</b>	<b>0.1147</b>	<b>0.0626</b>	<b>8.7000e-004</b>	<b>0.0634</b>	<b>0.0000</b>	<b>56.0064</b>	<b>56.0064</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>56.0755</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.4000e-004	4.0100e-003	1.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.2736	1.2736	3.0000e-005	3.0000e-005	1.2829
<b>Total</b>	<b>4.8000e-004</b>	<b>2.4000e-004</b>	<b>4.0100e-003</b>	<b>1.0000e-005</b>	<b>1.8500e-003</b>	<b>1.0000e-005</b>	<b>1.8600e-003</b>	<b>4.9000e-004</b>	<b>1.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.2736</b>	<b>1.2736</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2829</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					0.1996	0.0000	0.1996	0.0941	0.0000	0.0941	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0886	0.3739	0.6216	1.8900e-003		0.0132	0.0132		0.0132	0.0132	0.0000	176.6778	176.6778	7.1400e-003	0.0000	176.8563
<b>Total</b>	<b>0.0886</b>	<b>0.3739</b>	<b>0.6216</b>	<b>1.8900e-003</b>	<b>0.1996</b>	<b>0.0132</b>	<b>0.2128</b>	<b>0.0941</b>	<b>0.0132</b>	<b>0.1073</b>	<b>0.0000</b>	<b>176.6778</b>	<b>176.6778</b>	<b>7.1400e-003</b>	<b>0.0000</b>	<b>176.8563</b>

**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	0.0165	0.9767	0.2356	3.9300e-003	0.1230	7.3000e-003	0.1303	0.0338	6.9900e-003	0.0408	0.0000	390.1357	390.1357	0.0159	0.0619	408.9746
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	1.0200e-003	5.1000e-004	8.5900e-003	3.0000e-005	3.9700e-003	1.0000e-005	3.9800e-003	1.0500e-003	1.0000e-005	1.0700e-003	0.0000	2.7291	2.7291	5.0000e-005	6.0000e-005	2.7491
<b>Total</b>	<b>0.0175</b>	<b>0.9772</b>	<b>0.2442</b>	<b>3.9600e-003</b>	<b>0.1270</b>	<b>7.3100e-003</b>	<b>0.1343</b>	<b>0.0348</b>	<b>7.0000e-003</b>	<b>0.0418</b>	<b>0.0000</b>	<b>392.8648</b>	<b>392.8648</b>	<b>0.0159</b>	<b>0.0620</b>	<b>411.7238</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					0.0898	0.0000	0.0898	0.0424	0.0000	0.0424	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0206	0.0891	0.8910	1.8900e-003		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	176.6776	176.6776	7.1400e-003	0.0000	176.8561
<b>Total</b>	<b>0.0206</b>	<b>0.0891</b>	<b>0.8910</b>	<b>1.8900e-003</b>	<b>0.0898</b>	<b>2.7400e-003</b>	<b>0.0926</b>	<b>0.0424</b>	<b>2.7400e-003</b>	<b>0.0451</b>	<b>0.0000</b>	<b>176.6776</b>	<b>176.6776</b>	<b>7.1400e-003</b>	<b>0.0000</b>	<b>176.8561</b>

**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	0.0165	0.9767	0.2356	3.9300e-003	0.1230	7.3000e-003	0.1303	0.0338	6.9900e-003	0.0408	0.0000	390.1357	390.1357	0.0159	0.0619	408.9746
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	1.0200e-003	5.1000e-004	8.5900e-003	3.0000e-005	3.9700e-003	1.0000e-005	3.9800e-003	1.0500e-003	1.0000e-005	1.0700e-003	0.0000	2.7291	2.7291	5.0000e-005	6.0000e-005	2.7491
<b>Total</b>	<b>0.0175</b>	<b>0.9772</b>	<b>0.2442</b>	<b>3.9600e-003</b>	<b>0.1270</b>	<b>7.3100e-003</b>	<b>0.1343</b>	<b>0.0348</b>	<b>7.0000e-003</b>	<b>0.0418</b>	<b>0.0000</b>	<b>392.8648</b>	<b>392.8648</b>	<b>0.0159</b>	<b>0.0620</b>	<b>411.7238</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					0.1093	0.0000	0.1093	0.0445	0.0000	0.0445	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0394	0.1662	0.2763	8.4000e-004		5.8600e-003	5.8600e-003		5.8600e-003	5.8600e-003	0.0000	78.5235	78.5235	3.1700e-003	0.0000	78.6028
<b>Total</b>	<b>0.0394</b>	<b>0.1662</b>	<b>0.2763</b>	<b>8.4000e-004</b>	<b>0.1093</b>	<b>5.8600e-003</b>	<b>0.1152</b>	<b>0.0445</b>	<b>5.8600e-003</b>	<b>0.0503</b>	<b>0.0000</b>	<b>78.5235</b>	<b>78.5235</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>78.6028</b>

**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	7.1900e-003	0.4263	0.1048	1.7200e-003	0.0547	3.1800e-003	0.0579	0.0150	3.0400e-003	0.0181	0.0000	170.2856	170.2856	6.9400e-003	0.0270	178.5088
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.1000e-004	3.6900e-003	1.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.7000e-004	0.0000	1.1944	1.1944	2.0000e-005	3.0000e-005	1.2030
<b>Total</b>	<b>7.6200e-003</b>	<b>0.4265</b>	<b>0.1085</b>	<b>1.7300e-003</b>	<b>0.0564</b>	<b>3.1900e-003</b>	<b>0.0596</b>	<b>0.0155</b>	<b>3.0500e-003</b>	<b>0.0185</b>	<b>0.0000</b>	<b>171.4799</b>	<b>171.4799</b>	<b>6.9600e-003</b>	<b>0.0270</b>	<b>179.7118</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					0.0492	0.0000	0.0492	0.0200	0.0000	0.0200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1400e-003	0.0396	0.3960	8.4000e-004		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	78.5234	78.5234	3.1700e-003	0.0000	78.6027
<b>Total</b>	<b>9.1400e-003</b>	<b>0.0396</b>	<b>0.3960</b>	<b>8.4000e-004</b>	<b>0.0492</b>	<b>1.2200e-003</b>	<b>0.0504</b>	<b>0.0200</b>	<b>1.2200e-003</b>	<b>0.0212</b>	<b>0.0000</b>	<b>78.5234</b>	<b>78.5234</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>78.6027</b>

**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	7.1900e-003	0.4263	0.1048	1.7200e-003	0.0547	3.1800e-003	0.0579	0.0150	3.0400e-003	0.0181	0.0000	170.2856	170.2856	6.9400e-003	0.0270	178.5088
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.1000e-004	3.6900e-003	1.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.7000e-004	0.0000	1.1944	1.1944	2.0000e-005	3.0000e-005	1.2030
<b>Total</b>	<b>7.6200e-003</b>	<b>0.4265</b>	<b>0.1085</b>	<b>1.7300e-003</b>	<b>0.0564</b>	<b>3.1900e-003</b>	<b>0.0596</b>	<b>0.0155</b>	<b>3.0500e-003</b>	<b>0.0185</b>	<b>0.0000</b>	<b>171.4799</b>	<b>171.4799</b>	<b>6.9600e-003</b>	<b>0.0270</b>	<b>179.7118</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	0.1551	0.9403	1.9146	3.6700e-003		0.0176	0.0176		0.0176	0.0176	0.0000	311.4903	311.4903	0.0125	0.0000	311.8027
<b>Total</b>	<b>0.1551</b>	<b>0.9403</b>	<b>1.9146</b>	<b>3.6700e-003</b>		<b>0.0176</b>	<b>0.0176</b>		<b>0.0176</b>	<b>0.0176</b>	<b>0.0000</b>	<b>311.4903</b>	<b>311.4903</b>	<b>0.0125</b>	<b>0.0000</b>	<b>311.8027</b>

**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	0.0255	1.0760	0.3250	4.1200e-003	0.1483	5.5800e-003	0.1539	0.0429	5.3400e-003	0.0482	0.0000	401.7513	401.7513	9.8000e-003	0.0597	419.8003
Worker	0.1653	0.0818	1.4248	4.6700e-003	0.6806	2.3000e-003	0.6829	0.1810	2.1200e-003	0.1831	0.0000	461.1624	461.1624	8.7700e-003	0.0104	464.4839
<b>Total</b>	<b>0.1909</b>	<b>1.1579</b>	<b>1.7498</b>	<b>8.7900e-003</b>	<b>0.8289</b>	<b>7.8800e-003</b>	<b>0.8368</b>	<b>0.2239</b>	<b>7.4600e-003</b>	<b>0.2313</b>	<b>0.0000</b>	<b>862.9137</b>	<b>862.9137</b>	<b>0.0186</b>	<b>0.0702</b>	<b>884.2843</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	0.0389	0.2648	2.0690	3.6700e-003		4.8300e-003	4.8300e-003		4.8300e-003	4.8300e-003	0.0000	311.4899	311.4899	0.0125	0.0000	311.8024
<b>Total</b>	<b>0.0389</b>	<b>0.2648</b>	<b>2.0690</b>	<b>3.6700e-003</b>		<b>4.8300e-003</b>	<b>4.8300e-003</b>		<b>4.8300e-003</b>	<b>4.8300e-003</b>	<b>0.0000</b>	<b>311.4899</b>	<b>311.4899</b>	<b>0.0125</b>	<b>0.0000</b>	<b>311.8024</b>

**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	0.0255	1.0760	0.3250	4.1200e-003	0.1483	5.5800e-003	0.1539	0.0429	5.3400e-003	0.0482	0.0000	401.7513	401.7513	9.8000e-003	0.0597	419.8003
Worker	0.1653	0.0818	1.4248	4.6700e-003	0.6806	2.3000e-003	0.6829	0.1810	2.1200e-003	0.1831	0.0000	461.1624	461.1624	8.7700e-003	0.0104	464.4839
<b>Total</b>	<b>0.1909</b>	<b>1.1579</b>	<b>1.7498</b>	<b>8.7900e-003</b>	<b>0.8289</b>	<b>7.8800e-003</b>	<b>0.8368</b>	<b>0.2239</b>	<b>7.4600e-003</b>	<b>0.2313</b>	<b>0.0000</b>	<b>862.9137</b>	<b>862.9137</b>	<b>0.0186</b>	<b>0.0702</b>	<b>884.2843</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
<b>Total</b>	<b>0.1715</b>	<b>1.0394</b>	<b>2.1166</b>	<b>4.0600e-003</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>344.3479</b>	<b>344.3479</b>	<b>0.0138</b>	<b>0.0000</b>	<b>344.6933</b>

**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	0.0277	1.1767	0.3576	4.4900e-003	0.1640	6.0700e-003	0.1701	0.0474	5.8000e-003	0.0532	0.0000	437.4844	437.4844	0.0107	0.0651	457.1614
Worker	0.1726	0.0858	1.5278	5.0600e-003	0.7524	2.3800e-003	0.7548	0.2001	2.1900e-003	0.2023	0.0000	502.8606	502.8606	9.0700e-003	0.0112	506.4298
<b>Total</b>	<b>0.2002</b>	<b>1.2625</b>	<b>1.8854</b>	<b>9.5500e-003</b>	<b>0.9164</b>	<b>8.4500e-003</b>	<b>0.9248</b>	<b>0.2475</b>	<b>7.9900e-003</b>	<b>0.2555</b>	<b>0.0000</b>	<b>940.3450</b>	<b>940.3450</b>	<b>0.0198</b>	<b>0.0764</b>	<b>963.5912</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**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	0.0429	0.2928	2.2873	4.0600e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
<b>Total</b>	<b>0.0429</b>	<b>0.2928</b>	<b>2.2873</b>	<b>4.0600e-003</b>		<b>5.3400e-003</b>	<b>5.3400e-003</b>		<b>5.3400e-003</b>	<b>5.3400e-003</b>	<b>0.0000</b>	<b>344.3475</b>	<b>344.3475</b>	<b>0.0138</b>	<b>0.0000</b>	<b>344.6929</b>

**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	0.0277	1.1767	0.3576	4.4900e-003	0.1640	6.0700e-003	0.1701	0.0474	5.8000e-003	0.0532	0.0000	437.4844	437.4844	0.0107	0.0651	457.1614
Worker	0.1726	0.0858	1.5278	5.0600e-003	0.7524	2.3800e-003	0.7548	0.2001	2.1900e-003	0.2023	0.0000	502.8606	502.8606	9.0700e-003	0.0112	506.4298
<b>Total</b>	<b>0.2002</b>	<b>1.2625</b>	<b>1.8854</b>	<b>9.5500e-003</b>	<b>0.9164</b>	<b>8.4500e-003</b>	<b>0.9248</b>	<b>0.2475</b>	<b>7.9900e-003</b>	<b>0.2555</b>	<b>0.0000</b>	<b>940.3450</b>	<b>940.3450</b>	<b>0.0198</b>	<b>0.0764</b>	<b>963.5912</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2033**

**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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
<b>Total</b>	<b>0.1702</b>	<b>1.0315</b>	<b>2.1004</b>	<b>4.0200e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>341.7193</b>	<b>341.7193</b>	<b>0.0137</b>	<b>0.0000</b>	<b>342.0621</b>

**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	0.0270	1.1570	0.3538	4.3900e-003	0.1627	5.9300e-003	0.1687	0.0470	5.6800e-003	0.0527	0.0000	428.3118	428.3118	0.0105	0.0638	447.5969
Worker	0.1625	0.0814	1.4759	4.9400e-003	0.7466	2.2200e-003	0.7489	0.1986	2.0400e-003	0.2006	0.0000	492.9849	492.9849	8.4500e-003	0.0109	496.4436
<b>Total</b>	<b>0.1895</b>	<b>1.2384</b>	<b>1.8297</b>	<b>9.3300e-003</b>	<b>0.9094</b>	<b>8.1500e-003</b>	<b>0.9175</b>	<b>0.2456</b>	<b>7.7200e-003</b>	<b>0.2533</b>	<b>0.0000</b>	<b>921.2967</b>	<b>921.2967</b>	<b>0.0189</b>	<b>0.0747</b>	<b>944.0404</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2033**

**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	0.0426	0.2905	2.2698	4.0200e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
<b>Total</b>	<b>0.0426</b>	<b>0.2905</b>	<b>2.2698</b>	<b>4.0200e-003</b>		<b>5.3000e-003</b>	<b>5.3000e-003</b>		<b>5.3000e-003</b>	<b>5.3000e-003</b>	<b>0.0000</b>	<b>341.7189</b>	<b>341.7189</b>	<b>0.0137</b>	<b>0.0000</b>	<b>342.0617</b>

**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	0.0270	1.1570	0.3538	4.3900e-003	0.1627	5.9300e-003	0.1687	0.0470	5.6800e-003	0.0527	0.0000	428.3118	428.3118	0.0105	0.0638	447.5969
Worker	0.1625	0.0814	1.4759	4.9400e-003	0.7466	2.2200e-003	0.7489	0.1986	2.0400e-003	0.2006	0.0000	492.9849	492.9849	8.4500e-003	0.0109	496.4436
<b>Total</b>	<b>0.1895</b>	<b>1.2384</b>	<b>1.8297</b>	<b>9.3300e-003</b>	<b>0.9094</b>	<b>8.1500e-003</b>	<b>0.9175</b>	<b>0.2456</b>	<b>7.7200e-003</b>	<b>0.2533</b>	<b>0.0000</b>	<b>921.2967</b>	<b>921.2967</b>	<b>0.0189</b>	<b>0.0747</b>	<b>944.0404</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2034**

**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	0.0164	0.0992	0.2020	3.9000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003	0.0000	32.8576	32.8576	1.3200e-003	0.0000	32.8906
<b>Total</b>	<b>0.0164</b>	<b>0.0992</b>	<b>0.2020</b>	<b>3.9000e-004</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>	<b>0.0000</b>	<b>32.8576</b>	<b>32.8576</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>32.8906</b>

**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	2.5500e-003	0.1103	0.0339	4.2000e-004	0.0157	5.6000e-004	0.0162	4.5200e-003	5.4000e-004	5.0600e-003	0.0000	40.6706	40.6706	9.9000e-004	6.0700e-003	42.5036
Worker	0.0149	7.5300e-003	0.1385	4.7000e-004	0.0718	2.0000e-004	0.0720	0.0191	1.8000e-004	0.0193	0.0000	46.8954	46.8954	7.6000e-004	1.0300e-003	47.2213
<b>Total</b>	<b>0.0174</b>	<b>0.1178</b>	<b>0.1724</b>	<b>8.9000e-004</b>	<b>0.0874</b>	<b>7.6000e-004</b>	<b>0.0882</b>	<b>0.0236</b>	<b>7.2000e-004</b>	<b>0.0243</b>	<b>0.0000</b>	<b>87.5660</b>	<b>87.5660</b>	<b>1.7500e-003</b>	<b>7.1000e-003</b>	<b>89.7249</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1000e-003	0.0279	0.2183	3.9000e-004		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	32.8576	32.8576	1.3200e-003	0.0000	32.8905
<b>Total</b>	<b>4.1000e-003</b>	<b>0.0279</b>	<b>0.2183</b>	<b>3.9000e-004</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>32.8576</b>	<b>32.8576</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>32.8905</b>

**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	2.5500e-003	0.1103	0.0339	4.2000e-004	0.0157	5.6000e-004	0.0162	4.5200e-003	5.4000e-004	5.0600e-003	0.0000	40.6706	40.6706	9.9000e-004	6.0700e-003	42.5036
Worker	0.0149	7.5300e-003	0.1385	4.7000e-004	0.0718	2.0000e-004	0.0720	0.0191	1.8000e-004	0.0193	0.0000	46.8954	46.8954	7.6000e-004	1.0300e-003	47.2213
<b>Total</b>	<b>0.0174</b>	<b>0.1178</b>	<b>0.1724</b>	<b>8.9000e-004</b>	<b>0.0874</b>	<b>7.6000e-004</b>	<b>0.0882</b>	<b>0.0236</b>	<b>7.2000e-004</b>	<b>0.0243</b>	<b>0.0000</b>	<b>87.5660</b>	<b>87.5660</b>	<b>1.7500e-003</b>	<b>7.1000e-003</b>	<b>89.7249</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2034**

**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	0.0367	0.1887	0.4200	7.4000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	63.8637	63.8637	2.9900e-003	0.0000	63.9386
Paving	0.0131					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0498</b>	<b>0.1887</b>	<b>0.4200</b>	<b>7.4000e-004</b>		<b>8.7600e-003</b>	<b>8.7600e-003</b>		<b>8.7600e-003</b>	<b>8.7600e-003</b>	<b>0.0000</b>	<b>63.8637</b>	<b>63.8637</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>63.9386</b>

**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	6.0000e-004	3.1000e-004	5.6300e-003	2.0000e-005	2.9200e-003	1.0000e-005	2.9300e-003	7.8000e-004	1.0000e-005	7.8000e-004	0.0000	1.9070	1.9070	3.0000e-005	4.0000e-005	1.9203
<b>Total</b>	<b>6.0000e-004</b>	<b>3.1000e-004</b>	<b>5.6300e-003</b>	<b>2.0000e-005</b>	<b>2.9200e-003</b>	<b>1.0000e-005</b>	<b>2.9300e-003</b>	<b>7.8000e-004</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>1.9070</b>	<b>1.9070</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>1.9203</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2034**

**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	7.4300e-003	0.0322	0.4583	7.4000e-004		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	63.8636	63.8636	2.9900e-003	0.0000	63.9385
Paving	0.0131					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0205</b>	<b>0.0322</b>	<b>0.4583</b>	<b>7.4000e-004</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>63.8636</b>	<b>63.8636</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>63.9385</b>

**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	6.0000e-004	3.1000e-004	5.6300e-003	2.0000e-005	2.9200e-003	1.0000e-005	2.9300e-003	7.8000e-004	1.0000e-005	7.8000e-004	0.0000	1.9070	1.9070	3.0000e-005	4.0000e-005	1.9203
<b>Total</b>	<b>6.0000e-004</b>	<b>3.1000e-004</b>	<b>5.6300e-003</b>	<b>2.0000e-005</b>	<b>2.9200e-003</b>	<b>1.0000e-005</b>	<b>2.9300e-003</b>	<b>7.8000e-004</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>1.9070</b>	<b>1.9070</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>1.9203</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2034**

**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	6.1624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4600e-003	0.0227	0.0476	8.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	6.7661	6.7661	2.7000e-004	0.0000	6.7730
<b>Total</b>	<b>6.1659</b>	<b>0.0227</b>	<b>0.0476</b>	<b>8.0000e-005</b>		<b>5.4000e-004</b>	<b>5.4000e-004</b>		<b>5.4000e-004</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>6.7661</b>	<b>6.7661</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>6.7730</b>

**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	6.2900e-003	3.1800e-003	0.0586	2.0000e-004	0.0304	8.0000e-005	0.0305	8.0800e-003	8.0000e-005	8.1500e-003	0.0000	19.8328	19.8328	3.2000e-004	4.4000e-004	19.9706
<b>Total</b>	<b>6.2900e-003</b>	<b>3.1800e-003</b>	<b>0.0586</b>	<b>2.0000e-004</b>	<b>0.0304</b>	<b>8.0000e-005</b>	<b>0.0305</b>	<b>8.0800e-003</b>	<b>8.0000e-005</b>	<b>8.1500e-003</b>	<b>0.0000</b>	<b>19.8328</b>	<b>19.8328</b>	<b>3.2000e-004</b>	<b>4.4000e-004</b>	<b>19.9706</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2034**

**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	6.1624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9000e-004	3.4100e-003	0.0486	8.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	6.7661	6.7661	2.7000e-004	0.0000	6.7730
<b>Total</b>	<b>6.1632</b>	<b>3.4100e-003</b>	<b>0.0486</b>	<b>8.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>6.7661</b>	<b>6.7661</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>6.7730</b>

**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	6.2900e-003	3.1800e-003	0.0586	2.0000e-004	0.0304	8.0000e-005	0.0305	8.0800e-003	8.0000e-005	8.1500e-003	0.0000	19.8328	19.8328	3.2000e-004	4.4000e-004	19.9706
<b>Total</b>	<b>6.2900e-003</b>	<b>3.1800e-003</b>	<b>0.0586</b>	<b>2.0000e-004</b>	<b>0.0304</b>	<b>8.0000e-005</b>	<b>0.0305</b>	<b>8.0800e-003</b>	<b>8.0000e-005</b>	<b>8.1500e-003</b>	<b>0.0000</b>	<b>19.8328</b>	<b>19.8328</b>	<b>3.2000e-004</b>	<b>4.4000e-004</b>	<b>19.9706</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park PUD - Part 4  
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	91.50	1000sqft	1.83	91,476.00	0
Elementary School	65.30	1000sqft	1.50	65,340.00	0
General Light Industry	9.30	1000sqft	0.43	9,256.50	0
Parking Lot	435.60	1000sqft	10.00	435,600.00	0
City Park	1.80	Acre	1.80	78,408.00	0
Health Club	114.30	1000sqft	2.63	114,345.00	0
Hotel	38.00	Room	0.94	54,450.00	0
Apartments Mid Rise	424.00	Dwelling Unit	5.92	433,759.00	1132
Condo/townhouse	119.00	Dwelling Unit	4.58	118,500.00	318
Single Family Housing	77.00	Dwelling Unit	6.40	138,150.00	206
Strip Mall	49.50	1000sqft	0.96	49,549.50	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2040
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - One quarter build out, construction only

Land Use - 1/4 of land use

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Phase - Adjusted for 4 year schedule

Trips and VMT -

Demolition -

Grading - Acre graded = site acreage

Architectural Coating -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	740.00	784.00
tblConstructionPhase	NumDays	75.00	78.00
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	30.00	28.00
tblGrading	AcresOfGrading	234.00	37.00
tblGrading	AcresOfGrading	42.00	0.00
tblGrading	MaterialExported	0.00	56,930.00
tblGrading	MaterialImported	0.00	111,420.00
tblLandUse	LandUseSquareFeet	91,500.00	91,476.00
tblLandUse	LandUseSquareFeet	65,300.00	65,340.00
tblLandUse	LandUseSquareFeet	9,300.00	9,256.50
tblLandUse	LandUseSquareFeet	114,300.00	114,345.00
tblLandUse	LandUseSquareFeet	55,176.00	54,450.00
tblLandUse	LandUseSquareFeet	424,000.00	433,759.00
tblLandUse	LandUseSquareFeet	119,000.00	118,500.00
tblLandUse	LandUseSquareFeet	138,600.00	138,150.00
tblLandUse	LandUseSquareFeet	49,500.00	49,549.50

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LotAcreage	2.10	1.83
tblLandUse	LotAcreage	0.21	0.43
tblLandUse	LotAcreage	2.62	2.63
tblLandUse	LotAcreage	1.27	0.94
tblLandUse	LotAcreage	11.16	5.92
tblLandUse	LotAcreage	7.44	4.58
tblLandUse	LotAcreage	25.00	6.40
tblLandUse	LotAcreage	1.14	0.96

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2034	0.1890	1.7424	1.5595	7.4900e-003	0.6914	0.0346	0.7260	0.2835	0.0343	0.3178	0.0000	708.3771	708.3771	0.0294	0.0600	726.9889
2035	0.3453	2.5001	3.8967	0.0145	0.9983	0.0250	1.0233	0.2865	0.0244	0.3110	0.0000	1,384.2629	1,384.2629	0.0378	0.0937	1,413.1187
2036	0.3342	2.1609	3.8869	0.0132	0.9163	0.0197	0.9360	0.2475	0.0192	0.2667	0.0000	1,252.7078	1,252.7078	0.0307	0.0736	1,275.3976
2037	0.3329	2.1526	3.8720	0.0132	0.9128	0.0196	0.9324	0.2466	0.0192	0.2657	0.0000	1,247.9265	1,247.9265	0.0306	0.0733	1,270.5297
2038	6.2486	0.3671	0.9153	2.3500e-003	0.1242	7.2700e-003	0.1315	0.0334	7.2200e-003	0.0406	0.0000	216.4829	216.4829	6.0900e-003	7.7700e-003	218.9508
<b>Maximum</b>	<b>6.2486</b>	<b>2.5001</b>	<b>3.8967</b>	<b>0.0145</b>	<b>0.9983</b>	<b>0.0346</b>	<b>1.0233</b>	<b>0.2865</b>	<b>0.0343</b>	<b>0.3178</b>	<b>0.0000</b>	<b>1,384.2629</b>	<b>1,384.2629</b>	<b>0.0378</b>	<b>0.0937</b>	<b>1,413.1187</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2034	0.0555	1.1107	1.9920	7.4900e-003	0.3854	0.0121	0.3975	0.1479	0.0118	0.1597	0.0000	708.3767	708.3767	0.0294	0.0600	726.9885
2035	0.2129	1.8394	4.1906	0.0145	0.9349	0.0164	0.9513	0.2603	0.0159	0.2761	0.0000	1,384.2624	1,384.2624	0.0378	0.0937	1,413.1183
2036	0.2177	1.5155	4.0627	0.0132	0.9163	0.0132	0.9295	0.2475	0.0127	0.2602	0.0000	1,252.7074	1,252.7074	0.0307	0.0736	1,275.3972
2037	0.2169	1.5097	4.0472	0.0132	0.9128	0.0131	0.9259	0.2466	0.0127	0.2592	0.0000	1,247.9261	1,247.9261	0.0306	0.0733	1,270.5293
2038	6.2119	0.1894	0.9729	2.3500e-003	0.1242	2.4900e-003	0.1267	0.0334	2.4400e-003	0.0359	0.0000	216.4828	216.4828	6.0900e-003	7.7700e-003	218.9507
<b>Maximum</b>	<b>6.2119</b>	<b>1.8394</b>	<b>4.1906</b>	<b>0.0145</b>	<b>0.9349</b>	<b>0.0164</b>	<b>0.9513</b>	<b>0.2603</b>	<b>0.0159</b>	<b>0.2761</b>	<b>0.0000</b>	<b>1,384.2624</b>	<b>1,384.2624</b>	<b>0.0378</b>	<b>0.0937</b>	<b>1,413.1183</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>7.18</b>	<b>30.91</b>	<b>-8.03</b>	<b>0.00</b>	<b>10.14</b>	<b>46.07</b>	<b>11.16</b>	<b>14.75</b>	<b>46.82</b>	<b>17.53</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	7-3-2034	10-2-2034	0.4729	0.1379
2	10-3-2034	1-2-2035	1.5137	1.0845
3	1-3-2035	4-2-2035	0.9635	0.7446
4	4-3-2035	7-2-2035	0.6092	0.4202
5	7-3-2035	10-2-2035	0.6164	0.4253
6	10-3-2035	1-2-2036	0.6367	0.4456
7	1-3-2036	4-2-2036	0.6294	0.4403

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8	4-3-2036	7-2-2036	0.6092	0.4202
9	7-3-2036	10-2-2036	0.6164	0.4253
10	10-3-2036	1-2-2037	0.6367	0.4456
11	1-3-2037	4-2-2037	0.6224	0.4355
12	4-3-2037	7-2-2037	0.6092	0.4202
13	7-3-2037	10-2-2037	0.6164	0.4253
14	10-3-2037	1-2-2038	0.6367	0.4456
15	1-3-2038	4-2-2038	0.3616	0.2038
16	4-3-2038	7-2-2038	6.0561	6.0070
17	7-3-2038	9-30-2038	0.2505	0.2497
		Highest	6.0561	6.0070

**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	5.0342	0.0736	6.3760	3.4000e-004		0.0355	0.0355		0.0355	0.0355	0.0000	10.4642	10.4642	9.9900e-003	0.0000	10.7140
Energy	0.0916	0.8087	0.5253	4.9900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	2,144.8298	2,144.8298	0.1316	0.0305	2,157.1938
Mobile	2.8730	3.2003	27.5975	0.0548	7.7105	0.0292	7.7397	2.0588	0.0273	2.0861	0.0000	5,553.7464	5,553.7464	0.3740	0.2723	5,644.2441
Waste						0.0000	0.0000		0.0000	0.0000	249.6566	0.0000	249.6566	14.7543	0.0000	618.5136
Water						0.0000	0.0000		0.0000	0.0000	25.5066	86.1441	111.6506	0.0957	0.0564	130.8604
<b>Total</b>	<b>7.9988</b>	<b>4.0825</b>	<b>34.4988</b>	<b>0.0601</b>	<b>7.7105</b>	<b>0.1279</b>	<b>7.8384</b>	<b>2.0588</b>	<b>0.1260</b>	<b>2.1848</b>	<b>275.1631</b>	<b>7,795.1845</b>	<b>8,070.3476</b>	<b>15.3656</b>	<b>0.3592</b>	<b>8,561.5259</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.0342	0.0736	6.3760	3.4000e-004		0.0355	0.0355		0.0355	0.0355	0.0000	10.4642	10.4642	9.9900e-003	0.0000	10.7140
Energy	0.0916	0.8087	0.5253	4.9900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	2,144.8298	2,144.8298	0.1316	0.0305	2,157.1938
Mobile	2.8730	3.2003	27.5975	0.0548	7.7105	0.0292	7.7397	2.0588	0.0273	2.0861	0.0000	5,553.7464	5,553.7464	0.3740	0.2723	5,644.2441
Waste						0.0000	0.0000		0.0000	0.0000	249.6566	0.0000	249.6566	14.7543	0.0000	618.5136
Water						0.0000	0.0000		0.0000	0.0000	25.5066	86.1441	111.6506	0.0957	0.0564	130.8604
<b>Total</b>	<b>7.9988</b>	<b>4.0825</b>	<b>34.4988</b>	<b>0.0601</b>	<b>7.7105</b>	<b>0.1279</b>	<b>7.8384</b>	<b>2.0588</b>	<b>0.1260</b>	<b>2.1848</b>	<b>275.1631</b>	<b>7,795.1845</b>	<b>8,070.3476</b>	<b>15.3656</b>	<b>0.3592</b>	<b>8,561.5259</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>

**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	7/3/2034	9/8/2034	5	50	
2	Site Preparation	Site Preparation	9/11/2034	10/18/2034	5	28	
3	Grading	Grading	10/19/2034	2/5/2035	5	78	

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4	Building Construction	Building Construction	2/6/2035	2/5/2038	5	784
5	Paving	Paving	2/8/2038	4/21/2038	5	53
6	Architectural Coating	Architectural Coating	4/22/2038	7/5/2038	5	53

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

**Acres of Grading (Grading Phase): 37**

**Acres of Paving: 10**

**Residential Indoor: 1,398,078; Residential Outdoor: 466,026; Non-Residential Indoor: 576,626; Non-Residential Outdoor: 192,209; Striped Parking Area: 26,136 (Architectural Coating – sqft)**

**OffRoad Equipment**

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



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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	973.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	21,044.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	782.00	214.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	156.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2034**

**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					0.1098	0.0000	0.1098	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0519	0.2444	0.4729	1.1600e-003		8.7800e-003	8.7800e-003		8.7800e-003	8.7800e-003	0.0000	99.3046	99.3046	4.1900e-003	0.0000	99.4093
<b>Total</b>	<b>0.0519</b>	<b>0.2444</b>	<b>0.4729</b>	<b>1.1600e-003</b>	<b>0.1098</b>	<b>8.7800e-003</b>	<b>0.1186</b>	<b>0.0166</b>	<b>8.7800e-003</b>	<b>0.0254</b>	<b>0.0000</b>	<b>99.3046</b>	<b>99.3046</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>99.4093</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0300e-003	0.0613	0.0158	2.5000e-004	8.2100e-003	4.6000e-004	8.6700e-003	2.2500e-003	4.4000e-004	2.6900e-003	0.0000	24.4788	24.4788	1.0000e-003	3.8800e-003	25.6610
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	5.7000e-004	2.9000e-004	5.3100e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	1.7991	1.7991	3.0000e-005	4.0000e-005	1.8116
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0616</b>	<b>0.0211</b>	<b>2.7000e-004</b>	<b>0.0110</b>	<b>4.7000e-004</b>	<b>0.0114</b>	<b>2.9800e-003</b>	<b>4.5000e-004</b>	<b>3.4300e-003</b>	<b>0.0000</b>	<b>26.2778</b>	<b>26.2778</b>	<b>1.0300e-003</b>	<b>3.9200e-003</b>	<b>27.4725</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2034**

**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					0.0494	0.0000	0.0494	7.4800e-003	0.0000	7.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.0501	0.5820	1.1600e-003		1.5400e-003	1.5400e-003		1.5400e-003	1.5400e-003	0.0000	99.3045	99.3045	4.1900e-003	0.0000	99.4092
<b>Total</b>	<b>0.0116</b>	<b>0.0501</b>	<b>0.5820</b>	<b>1.1600e-003</b>	<b>0.0494</b>	<b>1.5400e-003</b>	<b>0.0510</b>	<b>7.4800e-003</b>	<b>1.5400e-003</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>99.3045</b>	<b>99.3045</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>99.4092</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0300e-003	0.0613	0.0158	2.5000e-004	8.2100e-003	4.6000e-004	8.6700e-003	2.2500e-003	4.4000e-004	2.6900e-003	0.0000	24.4788	24.4788	1.0000e-003	3.8800e-003	25.6610
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	5.7000e-004	2.9000e-004	5.3100e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	1.7991	1.7991	3.0000e-005	4.0000e-005	1.8116
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0616</b>	<b>0.0211</b>	<b>2.7000e-004</b>	<b>0.0110</b>	<b>4.7000e-004</b>	<b>0.0114</b>	<b>2.9800e-003</b>	<b>4.5000e-004</b>	<b>3.4300e-003</b>	<b>0.0000</b>	<b>26.2778</b>	<b>26.2778</b>	<b>1.0300e-003</b>	<b>3.9200e-003</b>	<b>27.4725</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2034**

**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					0.2529	0.0000	0.2529	0.1390	0.0000	0.1390	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0342	0.1914	0.2281	6.5000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	56.0065	56.0065	2.7600e-003	0.0000	56.0756
<b>Total</b>	<b>0.0342</b>	<b>0.1914</b>	<b>0.2281</b>	<b>6.5000e-004</b>	<b>0.2529</b>	<b>6.1100e-003</b>	<b>0.2590</b>	<b>0.1390</b>	<b>6.1100e-003</b>	<b>0.1451</b>	<b>0.0000</b>	<b>56.0065</b>	<b>56.0065</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>56.0756</b>

**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	3.8000e-004	1.9000e-004	3.5700e-003	1.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	0.0000	5.0000e-004	0.0000	1.2090	1.2090	2.0000e-005	3.0000e-005	1.2174
<b>Total</b>	<b>3.8000e-004</b>	<b>1.9000e-004</b>	<b>3.5700e-003</b>	<b>1.0000e-005</b>	<b>1.8500e-003</b>	<b>1.0000e-005</b>	<b>1.8600e-003</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.2090</b>	<b>1.2090</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2174</b>

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**3.3 Site Preparation - 2034**

**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					0.1138	0.0000	0.1138	0.0626	0.0000	0.0626	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0282	0.2922	6.5000e-004		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	56.0064	56.0064	2.7600e-003	0.0000	56.0755
<b>Total</b>	<b>6.5200e-003</b>	<b>0.0282</b>	<b>0.2922</b>	<b>6.5000e-004</b>	<b>0.1138</b>	<b>8.7000e-004</b>	<b>0.1147</b>	<b>0.0626</b>	<b>8.7000e-004</b>	<b>0.0634</b>	<b>0.0000</b>	<b>56.0064</b>	<b>56.0064</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>56.0755</b>

**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	3.8000e-004	1.9000e-004	3.5700e-003	1.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	0.0000	5.0000e-004	0.0000	1.2090	1.2090	2.0000e-005	3.0000e-005	1.2174
<b>Total</b>	<b>3.8000e-004</b>	<b>1.9000e-004</b>	<b>3.5700e-003</b>	<b>1.0000e-005</b>	<b>1.8500e-003</b>	<b>1.0000e-005</b>	<b>1.8600e-003</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.2090</b>	<b>1.2090</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2174</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2034**

**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					0.1936	0.0000	0.1936	0.0908	0.0000	0.0908	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0853	0.3600	0.5986	1.8200e-003		0.0127	0.0127		0.0127	0.0127	0.0000	170.1342	170.1342	6.8800e-003	0.0000	170.3061
<b>Total</b>	<b>0.0853</b>	<b>0.3600</b>	<b>0.5986</b>	<b>1.8200e-003</b>	<b>0.1936</b>	<b>0.0127</b>	<b>0.2063</b>	<b>0.0908</b>	<b>0.0127</b>	<b>0.1035</b>	<b>0.0000</b>	<b>170.1342</b>	<b>170.1342</b>	<b>6.8800e-003</b>	<b>0.0000</b>	<b>170.3061</b>

**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	0.0149	0.8844	0.2278	3.5600e-003	0.1184	6.5700e-003	0.1250	0.0325	6.2900e-003	0.0388	0.0000	352.9504	352.9504	0.0145	0.0560	369.9960
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	4.0000e-004	7.3700e-003	2.0000e-005	3.8200e-003	1.0000e-005	3.8300e-003	1.0200e-003	1.0000e-005	1.0300e-003	0.0000	2.4947	2.4947	4.0000e-005	5.0000e-005	2.5120
<b>Total</b>	<b>0.0157</b>	<b>0.8848</b>	<b>0.2351</b>	<b>3.5800e-003</b>	<b>0.1222</b>	<b>6.5800e-003</b>	<b>0.1288</b>	<b>0.0335</b>	<b>6.3000e-003</b>	<b>0.0398</b>	<b>0.0000</b>	<b>355.4451</b>	<b>355.4451</b>	<b>0.0145</b>	<b>0.0560</b>	<b>372.5081</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2034**

**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					0.0871	0.0000	0.0871	0.0409	0.0000	0.0409	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.0858	0.8580	1.8200e-003		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	170.1340	170.1340	6.8800e-003	0.0000	170.3059
<b>Total</b>	<b>0.0198</b>	<b>0.0858</b>	<b>0.8580</b>	<b>1.8200e-003</b>	<b>0.0871</b>	<b>2.6400e-003</b>	<b>0.0898</b>	<b>0.0409</b>	<b>2.6400e-003</b>	<b>0.0435</b>	<b>0.0000</b>	<b>170.1340</b>	<b>170.1340</b>	<b>6.8800e-003</b>	<b>0.0000</b>	<b>170.3059</b>

**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	0.0149	0.8844	0.2278	3.5600e-003	0.1184	6.5700e-003	0.1250	0.0325	6.2900e-003	0.0388	0.0000	352.9504	352.9504	0.0145	0.0560	369.9960
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	4.0000e-004	7.3700e-003	2.0000e-005	3.8200e-003	1.0000e-005	3.8300e-003	1.0200e-003	1.0000e-005	1.0300e-003	0.0000	2.4947	2.4947	4.0000e-005	5.0000e-005	2.5120
<b>Total</b>	<b>0.0157</b>	<b>0.8848</b>	<b>0.2351</b>	<b>3.5800e-003</b>	<b>0.1222</b>	<b>6.5800e-003</b>	<b>0.1288</b>	<b>0.0335</b>	<b>6.3000e-003</b>	<b>0.0398</b>	<b>0.0000</b>	<b>355.4451</b>	<b>355.4451</b>	<b>0.0145</b>	<b>0.0560</b>	<b>372.5081</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2035**

**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					0.1153	0.0000	0.1153	0.0478	0.0000	0.0478	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0379	0.1247	0.2928	9.1000e-004		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	85.0672	85.0672	3.0200e-003	0.0000	85.1426
<b>Total</b>	<b>0.0379</b>	<b>0.1247</b>	<b>0.2928</b>	<b>9.1000e-004</b>	<b>0.1153</b>	<b>4.0800e-003</b>	<b>0.1194</b>	<b>0.0478</b>	<b>4.0800e-003</b>	<b>0.0519</b>	<b>0.0000</b>	<b>85.0672</b>	<b>85.0672</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>85.1426</b>

**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	7.3600e-003	0.4370	0.1140	1.7600e-003	0.0592	3.2400e-003	0.0625	0.0163	3.1000e-003	0.0194	0.0000	174.3479	174.3479	7.1600e-003	0.0277	182.7683
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	3.8000e-004	1.9000e-004	3.6100e-003	1.0000e-005	1.9100e-003	1.0000e-005	1.9100e-003	5.1000e-004	0.0000	5.1000e-004	0.0000	1.2358	1.2358	2.0000e-005	3.0000e-005	1.2443
<b>Total</b>	<b>7.7400e-003</b>	<b>0.4372</b>	<b>0.1176</b>	<b>1.7700e-003</b>	<b>0.0611</b>	<b>3.2500e-003</b>	<b>0.0644</b>	<b>0.0168</b>	<b>3.1000e-003</b>	<b>0.0199</b>	<b>0.0000</b>	<b>175.5837</b>	<b>175.5837</b>	<b>7.1800e-003</b>	<b>0.0277</b>	<b>184.0126</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2035**

**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					0.0519	0.0000	0.0519	0.0215	0.0000	0.0215	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-003	0.0429	0.4290	9.1000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	85.0671	85.0671	3.0200e-003	0.0000	85.1425
<b>Total</b>	<b>9.9000e-003</b>	<b>0.0429</b>	<b>0.4290</b>	<b>9.1000e-004</b>	<b>0.0519</b>	<b>1.3200e-003</b>	<b>0.0532</b>	<b>0.0215</b>	<b>1.3200e-003</b>	<b>0.0228</b>	<b>0.0000</b>	<b>85.0671</b>	<b>85.0671</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>85.1425</b>

**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	7.3600e-003	0.4370	0.1140	1.7600e-003	0.0592	3.2400e-003	0.0625	0.0163	3.1000e-003	0.0194	0.0000	174.3479	174.3479	7.1600e-003	0.0277	182.7683
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	3.8000e-004	1.9000e-004	3.6100e-003	1.0000e-005	1.9100e-003	1.0000e-005	1.9100e-003	5.1000e-004	0.0000	5.1000e-004	0.0000	1.2358	1.2358	2.0000e-005	3.0000e-005	1.2443
<b>Total</b>	<b>7.7400e-003</b>	<b>0.4372</b>	<b>0.1176</b>	<b>1.7700e-003</b>	<b>0.0611</b>	<b>3.2500e-003</b>	<b>0.0644</b>	<b>0.0168</b>	<b>3.1000e-003</b>	<b>0.0199</b>	<b>0.0000</b>	<b>175.5837</b>	<b>175.5837</b>	<b>7.1800e-003</b>	<b>0.0277</b>	<b>184.0126</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2035**

**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	0.1430	0.8415	1.8938	3.6400e-003		0.0106	0.0106		0.0106	0.0106	0.0000	308.8617	308.8617	0.0115	0.0000	309.1493
<b>Total</b>	<b>0.1430</b>	<b>0.8415</b>	<b>1.8938</b>	<b>3.6400e-003</b>		<b>0.0106</b>	<b>0.0106</b>		<b>0.0106</b>	<b>0.0106</b>	<b>0.0000</b>	<b>308.8617</b>	<b>308.8617</b>	<b>0.0115</b>	<b>0.0000</b>	<b>309.1493</b>

**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	0.0236	1.0282	0.3183	3.8800e-003	0.1471	5.2200e-003	0.1523	0.0425	4.9900e-003	0.0475	0.0000	378.0138	378.0138	9.2500e-003	0.0564	395.0653
Worker	0.1331	0.0685	1.2742	4.3300e-003	0.6748	1.7800e-003	0.6766	0.1795	1.6400e-003	0.1811	0.0000	436.7365	436.7365	6.8000e-003	9.5400e-003	439.7490
<b>Total</b>	<b>0.1568</b>	<b>1.0967</b>	<b>1.5925</b>	<b>8.2100e-003</b>	<b>0.8219</b>	<b>7.0000e-003</b>	<b>0.8289</b>	<b>0.2220</b>	<b>6.6300e-003</b>	<b>0.2286</b>	<b>0.0000</b>	<b>814.7503</b>	<b>814.7503</b>	<b>0.0161</b>	<b>0.0660</b>	<b>834.8142</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2035**

**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	0.0385	0.2626	2.0516	3.6400e-003		4.7900e-003	4.7900e-003		4.7900e-003	4.7900e-003	0.0000	308.8613	308.8613	0.0115	0.0000	309.1489
<b>Total</b>	<b>0.0385</b>	<b>0.2626</b>	<b>2.0516</b>	<b>3.6400e-003</b>		<b>4.7900e-003</b>	<b>4.7900e-003</b>		<b>4.7900e-003</b>	<b>4.7900e-003</b>	<b>0.0000</b>	<b>308.8613</b>	<b>308.8613</b>	<b>0.0115</b>	<b>0.0000</b>	<b>309.1489</b>

**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	0.0236	1.0282	0.3183	3.8800e-003	0.1471	5.2200e-003	0.1523	0.0425	4.9900e-003	0.0475	0.0000	378.0138	378.0138	9.2500e-003	0.0564	395.0653
Worker	0.1331	0.0685	1.2742	4.3300e-003	0.6748	1.7800e-003	0.6766	0.1795	1.6400e-003	0.1811	0.0000	436.7365	436.7365	6.8000e-003	9.5400e-003	439.7490
<b>Total</b>	<b>0.1568</b>	<b>1.0967</b>	<b>1.5925</b>	<b>8.2100e-003</b>	<b>0.8219</b>	<b>7.0000e-003</b>	<b>0.8289</b>	<b>0.2220</b>	<b>6.6300e-003</b>	<b>0.2286</b>	<b>0.0000</b>	<b>814.7503</b>	<b>814.7503</b>	<b>0.0161</b>	<b>0.0660</b>	<b>834.8142</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2036**

**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	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3479	344.3479	0.0128	0.0000	344.6686
<b>Total</b>	<b>0.1594</b>	<b>0.9381</b>	<b>2.1114</b>	<b>4.0600e-003</b>		<b>0.0118</b>	<b>0.0118</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>344.3479</b>	<b>344.3479</b>	<b>0.0128</b>	<b>0.0000</b>	<b>344.6686</b>

**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	0.0264	1.1463	0.3549	4.3200e-003	0.1640	5.8200e-003	0.1698	0.0474	5.5700e-003	0.0530	0.0000	421.4451	421.4451	0.0103	0.0629	440.4557
Worker	0.1484	0.0764	1.4206	4.8300e-003	0.7524	1.9900e-003	0.7544	0.2001	1.8300e-003	0.2019	0.0000	486.9148	486.9148	7.5800e-003	0.0106	490.2733
<b>Total</b>	<b>0.1748</b>	<b>1.2227</b>	<b>1.7754</b>	<b>9.1500e-003</b>	<b>0.9163</b>	<b>7.8100e-003</b>	<b>0.9241</b>	<b>0.2475</b>	<b>7.4000e-003</b>	<b>0.2549</b>	<b>0.0000</b>	<b>908.3599</b>	<b>908.3599</b>	<b>0.0179</b>	<b>0.0736</b>	<b>930.7291</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2036**

**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	0.0429	0.2928	2.2873	4.0600e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	344.3475	344.3475	0.0128	0.0000	344.6682
<b>Total</b>	<b>0.0429</b>	<b>0.2928</b>	<b>2.2873</b>	<b>4.0600e-003</b>		<b>5.3400e-003</b>	<b>5.3400e-003</b>		<b>5.3400e-003</b>	<b>5.3400e-003</b>	<b>0.0000</b>	<b>344.3475</b>	<b>344.3475</b>	<b>0.0128</b>	<b>0.0000</b>	<b>344.6682</b>

**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	0.0264	1.1463	0.3549	4.3200e-003	0.1640	5.8200e-003	0.1698	0.0474	5.5700e-003	0.0530	0.0000	421.4451	421.4451	0.0103	0.0629	440.4557
Worker	0.1484	0.0764	1.4206	4.8300e-003	0.7524	1.9900e-003	0.7544	0.2001	1.8300e-003	0.2019	0.0000	486.9148	486.9148	7.5800e-003	0.0106	490.2733
<b>Total</b>	<b>0.1748</b>	<b>1.2227</b>	<b>1.7754</b>	<b>9.1500e-003</b>	<b>0.9163</b>	<b>7.8100e-003</b>	<b>0.9241</b>	<b>0.2475</b>	<b>7.4000e-003</b>	<b>0.2549</b>	<b>0.0000</b>	<b>908.3599</b>	<b>908.3599</b>	<b>0.0179</b>	<b>0.0736</b>	<b>930.7291</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2037**

**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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
<b>Total</b>	<b>0.1588</b>	<b>0.9346</b>	<b>2.1034</b>	<b>4.0400e-003</b>		<b>0.0118</b>	<b>0.0118</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>343.0336</b>	<b>343.0336</b>	<b>0.0128</b>	<b>0.0000</b>	<b>343.3530</b>

**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	0.0263	1.1420	0.3535	4.3100e-003	0.1633	5.8000e-003	0.1691	0.0472	5.5400e-003	0.0528	0.0000	419.8366	419.8366	0.0103	0.0627	438.7746
Worker	0.1479	0.0761	1.4151	4.8100e-003	0.7495	1.9800e-003	0.7515	0.1993	1.8200e-003	0.2012	0.0000	485.0563	485.0563	7.5500e-003	0.0106	488.4021
<b>Total</b>	<b>0.1741</b>	<b>1.2181</b>	<b>1.7687</b>	<b>9.1200e-003</b>	<b>0.9128</b>	<b>7.7800e-003</b>	<b>0.9206</b>	<b>0.2465</b>	<b>7.3600e-003</b>	<b>0.2539</b>	<b>0.0000</b>	<b>904.8929</b>	<b>904.8929</b>	<b>0.0178</b>	<b>0.0733</b>	<b>927.1767</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2037**

**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	0.0428	0.2916	2.2786	4.0400e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
<b>Total</b>	<b>0.0428</b>	<b>0.2916</b>	<b>2.2786</b>	<b>4.0400e-003</b>		<b>5.3200e-003</b>	<b>5.3200e-003</b>		<b>5.3200e-003</b>	<b>5.3200e-003</b>	<b>0.0000</b>	<b>343.0332</b>	<b>343.0332</b>	<b>0.0128</b>	<b>0.0000</b>	<b>343.3526</b>

**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	0.0263	1.1420	0.3535	4.3100e-003	0.1633	5.8000e-003	0.1691	0.0472	5.5400e-003	0.0528	0.0000	419.8366	419.8366	0.0103	0.0627	438.7746
Worker	0.1479	0.0761	1.4151	4.8100e-003	0.7495	1.9800e-003	0.7515	0.1993	1.8200e-003	0.2012	0.0000	485.0563	485.0563	7.5500e-003	0.0106	488.4021
<b>Total</b>	<b>0.1741</b>	<b>1.2181</b>	<b>1.7687</b>	<b>9.1200e-003</b>	<b>0.9128</b>	<b>7.7800e-003</b>	<b>0.9206</b>	<b>0.2465</b>	<b>7.3600e-003</b>	<b>0.2539</b>	<b>0.0000</b>	<b>904.8929</b>	<b>904.8929</b>	<b>0.0178</b>	<b>0.0733</b>	<b>927.1767</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2038**

**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	0.0158	0.0931	0.2095	4.0000e-004		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	34.1719	34.1719	1.2700e-003	0.0000	34.2038
<b>Total</b>	<b>0.0158</b>	<b>0.0931</b>	<b>0.2095</b>	<b>4.0000e-004</b>		<b>1.1800e-003</b>	<b>1.1800e-003</b>		<b>1.1800e-003</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>34.1719</b>	<b>34.1719</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>34.2038</b>

**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	2.6200e-003	0.1138	0.0352	4.3000e-004	0.0163	5.8000e-004	0.0169	4.7000e-003	5.5000e-004	5.2500e-003	0.0000	41.8228	41.8228	1.0200e-003	6.2400e-003	43.7094
Worker	0.0147	7.5800e-003	0.1410	4.8000e-004	0.0747	2.0000e-004	0.0749	0.0199	1.8000e-004	0.0200	0.0000	48.3198	48.3198	7.5000e-004	1.0600e-003	48.6531
<b>Total</b>	<b>0.0174</b>	<b>0.1213</b>	<b>0.1762</b>	<b>9.1000e-004</b>	<b>0.0909</b>	<b>7.8000e-004</b>	<b>0.0917</b>	<b>0.0246</b>	<b>7.3000e-004</b>	<b>0.0253</b>	<b>0.0000</b>	<b>90.1426</b>	<b>90.1426</b>	<b>1.7700e-003</b>	<b>7.3000e-003</b>	<b>92.3624</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2038**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2600e-003	0.0291	0.2270	4.0000e-004		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	34.1719	34.1719	1.2700e-003	0.0000	34.2037
<b>Total</b>	<b>4.2600e-003</b>	<b>0.0291</b>	<b>0.2270</b>	<b>4.0000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>34.1719</b>	<b>34.1719</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>34.2037</b>

**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	2.6200e-003	0.1138	0.0352	4.3000e-004	0.0163	5.8000e-004	0.0169	4.7000e-003	5.5000e-004	5.2500e-003	0.0000	41.8228	41.8228	1.0200e-003	6.2400e-003	43.7094
Worker	0.0147	7.5800e-003	0.1410	4.8000e-004	0.0747	2.0000e-004	0.0749	0.0199	1.8000e-004	0.0200	0.0000	48.3198	48.3198	7.5000e-004	1.0600e-003	48.6531
<b>Total</b>	<b>0.0174</b>	<b>0.1213</b>	<b>0.1762</b>	<b>9.1000e-004</b>	<b>0.0909</b>	<b>7.8000e-004</b>	<b>0.0917</b>	<b>0.0246</b>	<b>7.3000e-004</b>	<b>0.0253</b>	<b>0.0000</b>	<b>90.1426</b>	<b>90.1426</b>	<b>1.7700e-003</b>	<b>7.3000e-003</b>	<b>92.3624</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2038**

**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	0.0302	0.1292	0.4192	7.4000e-004		4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003	0.0000	63.8637	63.8637	2.4600e-003	0.0000	63.9252
Paving	0.0131					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0433</b>	<b>0.1292</b>	<b>0.4192</b>	<b>7.4000e-004</b>		<b>4.9700e-003</b>	<b>4.9700e-003</b>		<b>4.9700e-003</b>	<b>4.9700e-003</b>	<b>0.0000</b>	<b>63.8637</b>	<b>63.8637</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>63.9252</b>

**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	5.8000e-004	3.0000e-004	5.5100e-003	2.0000e-005	2.9200e-003	1.0000e-005	2.9300e-003	7.8000e-004	1.0000e-005	7.8000e-004	0.0000	1.8894	1.8894	3.0000e-005	4.0000e-005	1.9024
<b>Total</b>	<b>5.8000e-004</b>	<b>3.0000e-004</b>	<b>5.5100e-003</b>	<b>2.0000e-005</b>	<b>2.9200e-003</b>	<b>1.0000e-005</b>	<b>2.9300e-003</b>	<b>7.8000e-004</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>1.8894</b>	<b>1.8894</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>1.9024</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2038**

**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	7.4300e-003	0.0322	0.4583	7.4000e-004		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	63.8636	63.8636	2.4600e-003	0.0000	63.9251
Paving	0.0131					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0205</b>	<b>0.0322</b>	<b>0.4583</b>	<b>7.4000e-004</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>63.8636</b>	<b>63.8636</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>63.9251</b>

**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	5.8000e-004	3.0000e-004	5.5100e-003	2.0000e-005	2.9200e-003	1.0000e-005	2.9300e-003	7.8000e-004	1.0000e-005	7.8000e-004	0.0000	1.8894	1.8894	3.0000e-005	4.0000e-005	1.9024
<b>Total</b>	<b>5.8000e-004</b>	<b>3.0000e-004</b>	<b>5.5100e-003</b>	<b>2.0000e-005</b>	<b>2.9200e-003</b>	<b>1.0000e-005</b>	<b>2.9300e-003</b>	<b>7.8000e-004</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>1.8894</b>	<b>1.8894</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>1.9024</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2038**

**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	6.1624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1200e-003	0.0201	0.0476	8.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	6.7661	6.7661	2.5000e-004	0.0000	6.7724
<b>Total</b>	<b>6.1655</b>	<b>0.0201</b>	<b>0.0476</b>	<b>8.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>6.7661</b>	<b>6.7661</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>6.7724</b>

**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	5.9900e-003	3.0800e-003	0.0573	1.9000e-004	0.0304	8.0000e-005	0.0304	8.0800e-003	7.0000e-005	8.1500e-003	0.0000	19.6492	19.6492	3.1000e-004	4.3000e-004	19.7848
<b>Total</b>	<b>5.9900e-003</b>	<b>3.0800e-003</b>	<b>0.0573</b>	<b>1.9000e-004</b>	<b>0.0304</b>	<b>8.0000e-005</b>	<b>0.0304</b>	<b>8.0800e-003</b>	<b>7.0000e-005</b>	<b>8.1500e-003</b>	<b>0.0000</b>	<b>19.6492</b>	<b>19.6492</b>	<b>3.1000e-004</b>	<b>4.3000e-004</b>	<b>19.7848</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2038**

**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	6.1624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9000e-004	3.4100e-003	0.0486	8.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	6.7661	6.7661	2.5000e-004	0.0000	6.7724
<b>Total</b>	<b>6.1632</b>	<b>3.4100e-003</b>	<b>0.0486</b>	<b>8.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>6.7661</b>	<b>6.7661</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>6.7724</b>

**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	5.9900e-003	3.0800e-003	0.0573	1.9000e-004	0.0304	8.0000e-005	0.0304	8.0800e-003	7.0000e-005	8.1500e-003	0.0000	19.6492	19.6492	3.1000e-004	4.3000e-004	19.7848
<b>Total</b>	<b>5.9900e-003</b>	<b>3.0800e-003</b>	<b>0.0573</b>	<b>1.9000e-004</b>	<b>0.0304</b>	<b>8.0000e-005</b>	<b>0.0304</b>	<b>8.0800e-003</b>	<b>7.0000e-005</b>	<b>8.1500e-003</b>	<b>0.0000</b>	<b>19.6492</b>	<b>19.6492</b>	<b>3.1000e-004</b>	<b>4.3000e-004</b>	<b>19.7848</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - CNU Phase 1A**

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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	730.00	1000sqft	16.76	730,000.00	0
General Light Industry	30.00	1000sqft	0.69	30,000.00	0
Enclosed Parking with Elevator	200.00	Space	1.80	80,000.00	0
Parking Lot	837.00	Space	7.53	334,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2026
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics - CNU Phase 1A Construction only
- Land Use - Phase 1A: M1 and M2 + Parking
- Construction Phase - Demolition part of the PUD
- Trips and VMT - Use 7 CY Truck capacity
- Grading - Material import for 20' above grade work
- Construction Off-road Equipment Mitigation - MM Scenario of T4f + Dust BMPs
- Stationary Sources - Process Boilers -

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	48.00
tblConstructionPhase	NumDays	440.00	771.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	45.00	107.00
tblConstructionPhase	NumDays	35.00	61.00
tblConstructionPhase	NumDays	35.00	61.00
tblGrading	MaterialImported	0.00	114,286.00
tblTripsAndVMT	HaulingTripNumber	11,300.00	16,327.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.6425	7.0766	5.3032	0.0187	1.5263	0.2295	1.7558	0.5912	0.2136	0.8048	0.0000	1,744.8147	1,744.8147	0.2141	0.1442	1,793.1238
2023	0.3938	3.1899	3.7533	0.0118	0.5479	0.0996	0.6475	0.1491	0.0938	0.2429	0.0000	1,088.3816	1,088.3816	0.0934	0.0775	1,113.8025
2024	0.3719	3.0560	3.6717	0.0116	0.5521	0.0889	0.6410	0.1503	0.0837	0.2339	0.0000	1,079.8140	1,079.8140	0.0924	0.0763	1,104.8495
2025	3.7013	0.8866	1.2844	3.2800e-003	0.1339	0.0301	0.1640	0.0363	0.0282	0.0645	0.0000	300.7983	300.7983	0.0390	0.0155	306.3937
<b>Maximum</b>	<b>3.7013</b>	<b>7.0766</b>	<b>5.3032</b>	<b>0.0187</b>	<b>1.5263</b>	<b>0.2295</b>	<b>1.7558</b>	<b>0.5912</b>	<b>0.2136</b>	<b>0.8048</b>	<b>0.0000</b>	<b>1,744.8147</b>	<b>1,744.8147</b>	<b>0.2141</b>	<b>0.1442</b>	<b>1,793.1238</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2022	0.2893	3.1181	5.6506	0.0187	0.9960	0.0350	1.0310	0.3504	0.0339	0.3842	0.0000	1,744.8140	1,744.8140	0.2141	0.1442	1,793.1231
2023	0.2320	1.6104	3.9114	0.0118	0.5479	0.0140	0.5618	0.1491	0.0135	0.1626	0.0000	1,088.3812	1,088.3812	0.0934	0.0775	1,113.8021
2024	0.2220	1.5877	3.8411	0.0116	0.5521	0.0139	0.5660	0.1503	0.0134	0.1637	0.0000	1,079.8137	1,079.8137	0.0924	0.0763	1,104.8492
2025	3.6501	0.3597	1.4044	3.2800e-003	0.1339	4.1300e-003	0.1380	0.0363	4.0300e-003	0.0403	0.0000	300.7981	300.7981	0.0390	0.0155	306.3935
<b>Maximum</b>	<b>3.6501</b>	<b>3.1181</b>	<b>5.6506</b>	<b>0.0187</b>	<b>0.9960</b>	<b>0.0350</b>	<b>1.0310</b>	<b>0.3504</b>	<b>0.0339</b>	<b>0.3842</b>	<b>0.0000</b>	<b>1,744.8140</b>	<b>1,744.8140</b>	<b>0.2141</b>	<b>0.1442</b>	<b>1,793.1231</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>14.01</b>	<b>53.02</b>	<b>-5.67</b>	<b>0.00</b>	<b>19.21</b>	<b>85.07</b>	<b>28.41</b>	<b>25.99</b>	<b>84.54</b>	<b>44.22</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	1-3-2022	4-2-2022	2.2320	1.4857
2	4-3-2022	7-2-2022	2.4734	0.7538
3	7-3-2022	10-2-2022	1.9925	0.6160
4	10-3-2022	1-2-2023	1.0264	0.5424
5	1-3-2023	4-2-2023	0.8963	0.4658
6	4-3-2023	7-2-2023	0.8856	0.4502
7	7-3-2023	10-2-2023	0.8957	0.4556
8	10-3-2023	1-2-2024	0.9157	0.4763

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9	1-3-2024	4-2-2024	0.8604	0.4589
10	4-3-2024	7-2-2024	0.8401	0.4386
11	7-3-2024	10-2-2024	0.8498	0.4439
12	10-3-2024	1-2-2025	0.8693	0.4642
13	1-3-2025	4-2-2025	0.6956	0.3611
14	4-3-2025	7-2-2025	1.2180	1.0142
15	7-3-2025	9-30-2025	2.6363	2.6107
		Highest	2.6363	2.6107

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.3551	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0446	0.0446	1.2000e-004	0.0000	0.0475
Energy	0.2693	2.4477	2.0561	0.0147		0.1860	0.1860		0.1860	0.1860	0.0000	5,120.1739	5,120.1739	0.2774	0.0763	5,149.8440
Mobile	3.1705	3.9282	28.5754	0.0601	6.6154	0.0468	6.6623	1.7683	0.0437	1.8120	0.0000	5,569.0141	5,569.0141	0.3876	0.2796	5,662.0353
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1,607.9320	0.0000	1,607.9320	95.0261	0.0000	3,983.5835
Water						0.0000	0.0000		0.0000	0.0000	34.8630	89.6393	124.5023	0.1283	0.0768	150.6003
<b>Total</b>	<b>6.7949</b>	<b>6.3761</b>	<b>30.6544</b>	<b>0.0748</b>	<b>6.6154</b>	<b>0.2330</b>	<b>6.8484</b>	<b>1.7683</b>	<b>0.2299</b>	<b>1.9981</b>	<b>1,642.7950</b>	<b>10,778.8719</b>	<b>12,421.6669</b>	<b>95.8195</b>	<b>0.4327</b>	<b>14,946.1105</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.3551	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0446	0.0446	1.2000e-004	0.0000	0.0475
Energy	0.2693	2.4477	2.0561	0.0147		0.1860	0.1860		0.1860	0.1860	0.0000	5,120.1739	5,120.1739	0.2774	0.0763	5,149.8440
Mobile	3.1705	3.9282	28.5754	0.0601	6.6154	0.0468	6.6623	1.7683	0.0437	1.8120	0.0000	5,569.0141	5,569.0141	0.3876	0.2796	5,662.0353
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1,607.9320	0.0000	1,607.9320	95.0261	0.0000	3,983.5835
Water						0.0000	0.0000		0.0000	0.0000	34.8630	89.6393	124.5023	0.1283	0.0768	150.6003
<b>Total</b>	<b>6.7949</b>	<b>6.3761</b>	<b>30.6544</b>	<b>0.0748</b>	<b>6.6154</b>	<b>0.2330</b>	<b>6.8484</b>	<b>1.7683</b>	<b>0.2299</b>	<b>1.9981</b>	<b>1,642.7950</b>	<b>10,778.8719</b>	<b>12,421.6669</b>	<b>95.8195</b>	<b>0.4327</b>	<b>14,946.1105</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2022	4/7/2022	5	48	
2	Building Construction	Building Construction	4/1/2022	3/14/2025	5	771	

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3	Grading	Grading	4/8/2022	9/5/2022	5	107
4	Paving	Paving	3/17/2025	6/9/2025	5	61
5	Architectural Coating	Architectural Coating	6/10/2025	9/2/2025	5	61

**Acres of Grading (Site Preparation Phase): 72**

**Acres of Grading (Grading Phase): 321**

**Acres of Paving: 9.33**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,140,000; Non-Residential Outdoor: 380,000; Striped Parking Area: 24,888 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	16,327.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	420.00	193.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	84.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4718	0.0000	0.4718	0.2425	0.0000	0.2425	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0761	0.7940	0.4728	9.1000e-004		0.0387	0.0387		0.0356	0.0356	0.0000	80.2545	80.2545	0.0260	0.0000	80.9034
<b>Total</b>	<b>0.0761</b>	<b>0.7940</b>	<b>0.4728</b>	<b>9.1000e-004</b>	<b>0.4718</b>	<b>0.0387</b>	<b>0.5105</b>	<b>0.2425</b>	<b>0.0356</b>	<b>0.2781</b>	<b>0.0000</b>	<b>80.2545</b>	<b>80.2545</b>	<b>0.0260</b>	<b>0.0000</b>	<b>80.9034</b>

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**3.2 Site Preparation - 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	0.0335	1.5030	0.2810	5.3000e-003	0.1381	0.0123	0.1504	0.0379	0.0117	0.0497	0.0000	524.6141	524.6141	0.0211	0.0832	549.9220
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	1.3300e-003	8.7000e-004	0.0109	3.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.6126	2.6126	9.0000e-005	8.0000e-005	2.6383
<b>Total</b>	<b>0.0349</b>	<b>1.5039</b>	<b>0.2919</b>	<b>5.3300e-003</b>	<b>0.1413</b>	<b>0.0123</b>	<b>0.1535</b>	<b>0.0388</b>	<b>0.0117</b>	<b>0.0505</b>	<b>0.0000</b>	<b>527.2267</b>	<b>527.2267</b>	<b>0.0211</b>	<b>0.0832</b>	<b>552.5603</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					0.2123	0.0000	0.2123	0.1091	0.0000	0.1091	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0112	0.0484	0.5009	9.1000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003	0.0000	80.2544	80.2544	0.0260	0.0000	80.9033
<b>Total</b>	<b>0.0112</b>	<b>0.0484</b>	<b>0.5009</b>	<b>9.1000e-004</b>	<b>0.2123</b>	<b>1.4900e-003</b>	<b>0.2138</b>	<b>0.1091</b>	<b>1.4900e-003</b>	<b>0.1106</b>	<b>0.0000</b>	<b>80.2544</b>	<b>80.2544</b>	<b>0.0260</b>	<b>0.0000</b>	<b>80.9033</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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	0.0335	1.5030	0.2810	5.3000e-003	0.1381	0.0123	0.1504	0.0379	0.0117	0.0497	0.0000	524.6141	524.6141	0.0211	0.0832	549.9220
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	1.3300e-003	8.7000e-004	0.0109	3.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.6126	2.6126	9.0000e-005	8.0000e-005	2.6383
<b>Total</b>	<b>0.0349</b>	<b>1.5039</b>	<b>0.2919</b>	<b>5.3300e-003</b>	<b>0.1413</b>	<b>0.0123</b>	<b>0.1535</b>	<b>0.0388</b>	<b>0.0117</b>	<b>0.0505</b>	<b>0.0000</b>	<b>527.2267</b>	<b>527.2267</b>	<b>0.0211</b>	<b>0.0832</b>	<b>552.5603</b>

**3.3 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	0.1672	1.5303	1.6036	2.6400e-003		0.0793	0.0793		0.0746	0.0746	0.0000	227.0907	227.0907	0.0544	0.0000	228.4509
<b>Total</b>	<b>0.1672</b>	<b>1.5303</b>	<b>1.6036</b>	<b>2.6400e-003</b>		<b>0.0793</b>	<b>0.0793</b>		<b>0.0746</b>	<b>0.0746</b>	<b>0.0000</b>	<b>227.0907</b>	<b>227.0907</b>	<b>0.0544</b>	<b>0.0000</b>	<b>228.4509</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	0.0403	1.0855	0.3160	3.7300e-003	0.1107	0.0100	0.1208	0.0320	9.6000e-003	0.0416	0.0000	363.0872	363.0872	9.4800e-003	0.0532	379.1864
Worker	0.1268	0.0826	1.0383	2.7000e-003	0.3023	1.7000e-003	0.3040	0.0804	1.5700e-003	0.0820	0.0000	248.9243	248.9243	8.4900e-003	7.4900e-003	251.3692
<b>Total</b>	<b>0.1671</b>	<b>1.1681</b>	<b>1.3542</b>	<b>6.4300e-003</b>	<b>0.4130</b>	<b>0.0117</b>	<b>0.4248</b>	<b>0.1124</b>	<b>0.0112</b>	<b>0.1236</b>	<b>0.0000</b>	<b>612.0115</b>	<b>612.0115</b>	<b>0.0180</b>	<b>0.0607</b>	<b>630.5555</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	0.0321	0.2190	1.7111	2.6400e-003		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003	0.0000	227.0905	227.0905	0.0544	0.0000	228.4506
<b>Total</b>	<b>0.0321</b>	<b>0.2190</b>	<b>1.7111</b>	<b>2.6400e-003</b>		<b>4.0000e-003</b>	<b>4.0000e-003</b>		<b>4.0000e-003</b>	<b>4.0000e-003</b>	<b>0.0000</b>	<b>227.0905</b>	<b>227.0905</b>	<b>0.0544</b>	<b>0.0000</b>	<b>228.4506</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	0.0403	1.0855	0.3160	3.7300e-003	0.1107	0.0100	0.1208	0.0320	9.6000e-003	0.0416	0.0000	363.0872	363.0872	9.4800e-003	0.0532	379.1864
Worker	0.1268	0.0826	1.0383	2.7000e-003	0.3023	1.7000e-003	0.3040	0.0804	1.5700e-003	0.0820	0.0000	248.9243	248.9243	8.4900e-003	7.4900e-003	251.3692
<b>Total</b>	<b>0.1671</b>	<b>1.1681</b>	<b>1.3542</b>	<b>6.4300e-003</b>	<b>0.4130</b>	<b>0.0117</b>	<b>0.4248</b>	<b>0.1124</b>	<b>0.0112</b>	<b>0.1236</b>	<b>0.0000</b>	<b>612.0115</b>	<b>612.0115</b>	<b>0.0180</b>	<b>0.0607</b>	<b>630.5555</b>

**3.3 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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0327	1.2230	0.3687	4.7800e-003	0.1469	6.5200e-003	0.1534	0.0425	6.2300e-003	0.0487	0.0000	465.3425	465.3425	0.0115	0.0683	485.9769
Worker	0.1566	0.0969	1.2729	3.4600e-003	0.4010	2.1400e-003	0.4031	0.1067	1.9700e-003	0.1086	0.0000	321.6929	321.6929	0.0102	9.1900e-003	324.6873
<b>Total</b>	<b>0.1893</b>	<b>1.3199</b>	<b>1.6416</b>	<b>8.2400e-003</b>	<b>0.5479</b>	<b>8.6600e-003</b>	<b>0.5565</b>	<b>0.1491</b>	<b>8.2000e-003</b>	<b>0.1573</b>	<b>0.0000</b>	<b>787.0354</b>	<b>787.0354</b>	<b>0.0217</b>	<b>0.0775</b>	<b>810.6642</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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
<b>Total</b>	<b>0.0426</b>	<b>0.2905</b>	<b>2.2698</b>	<b>3.5000e-003</b>		<b>5.3000e-003</b>	<b>5.3000e-003</b>		<b>5.3000e-003</b>	<b>5.3000e-003</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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0327	1.2230	0.3687	4.7800e-003	0.1469	6.5200e-003	0.1534	0.0425	6.2300e-003	0.0487	0.0000	465.3425	465.3425	0.0115	0.0683	485.9769
Worker	0.1566	0.0969	1.2729	3.4600e-003	0.4010	2.1400e-003	0.4031	0.1067	1.9700e-003	0.1086	0.0000	321.6929	321.6929	0.0102	9.1900e-003	324.6873
<b>Total</b>	<b>0.1893</b>	<b>1.3199</b>	<b>1.6416</b>	<b>8.2400e-003</b>	<b>0.5479</b>	<b>8.6600e-003</b>	<b>0.5565</b>	<b>0.1491</b>	<b>8.2000e-003</b>	<b>0.1573</b>	<b>0.0000</b>	<b>787.0354</b>	<b>787.0354</b>	<b>0.0217</b>	<b>0.0775</b>	<b>810.6642</b>

**3.3 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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	0.0315	1.2080	0.3600	4.7300e-003	0.1480	6.4700e-003	0.1545	0.0428	6.1900e-003	0.0490	0.0000	460.0161	460.0161	0.0112	0.0677	480.4564
Worker	0.1476	0.0869	1.1938	3.3800e-003	0.4041	2.0500e-003	0.4061	0.1075	1.8900e-003	0.1094	0.0000	316.0756	316.0756	9.3000e-003	8.6100e-003	318.8753
<b>Total</b>	<b>0.1791</b>	<b>1.2949</b>	<b>1.5538</b>	<b>8.1100e-003</b>	<b>0.5521</b>	<b>8.5200e-003</b>	<b>0.5606</b>	<b>0.1503</b>	<b>8.0800e-003</b>	<b>0.1583</b>	<b>0.0000</b>	<b>776.0917</b>	<b>776.0917</b>	<b>0.0205</b>	<b>0.0763</b>	<b>799.3317</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	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.0429</b>	<b>0.2928</b>	<b>2.2873</b>	<b>3.5300e-003</b>		<b>5.3400e-003</b>	<b>5.3400e-003</b>		<b>5.3400e-003</b>	<b>5.3400e-003</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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	0.0315	1.2080	0.3600	4.7300e-003	0.1480	6.4700e-003	0.1545	0.0428	6.1900e-003	0.0490	0.0000	460.0161	460.0161	0.0112	0.0677	480.4564
Worker	0.1476	0.0869	1.1938	3.3800e-003	0.4041	2.0500e-003	0.4061	0.1075	1.8900e-003	0.1094	0.0000	316.0756	316.0756	9.3000e-003	8.6100e-003	318.8753
<b>Total</b>	<b>0.1791</b>	<b>1.2949</b>	<b>1.5538</b>	<b>8.1100e-003</b>	<b>0.5521</b>	<b>8.5200e-003</b>	<b>0.5606</b>	<b>0.1503</b>	<b>8.0800e-003</b>	<b>0.1583</b>	<b>0.0000</b>	<b>776.0917</b>	<b>776.0917</b>	<b>0.0205</b>	<b>0.0763</b>	<b>799.3317</b>

**3.3 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	0.0362	0.3305	0.4262	7.1000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	61.4587	61.4587	0.0145	0.0000	61.8198
<b>Total</b>	<b>0.0362</b>	<b>0.3305</b>	<b>0.4262</b>	<b>7.1000e-004</b>		<b>0.0140</b>	<b>0.0140</b>		<b>0.0132</b>	<b>0.0132</b>	<b>0.0000</b>	<b>61.4587</b>	<b>61.4587</b>	<b>0.0145</b>	<b>0.0000</b>	<b>61.8198</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	6.1500e-003	0.2394	0.0711	9.4000e-004	0.0299	1.2800e-003	0.0312	8.6500e-003	1.2300e-003	9.8800e-003	0.0000	91.1741	91.1741	2.2300e-003	0.0134	95.2325
Worker	0.0280	0.0158	0.2259	6.6000e-004	0.0817	4.0000e-004	0.0821	0.0217	3.7000e-004	0.0221	0.0000	62.3927	62.3927	1.7100e-003	1.6300e-003	62.9208
<b>Total</b>	<b>0.0342</b>	<b>0.2552</b>	<b>0.2970</b>	<b>1.6000e-003</b>	<b>0.1117</b>	<b>1.6800e-003</b>	<b>0.1134</b>	<b>0.0304</b>	<b>1.6000e-003</b>	<b>0.0320</b>	<b>0.0000</b>	<b>153.5667</b>	<b>153.5667</b>	<b>3.9400e-003</b>	<b>0.0151</b>	<b>158.1533</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	8.6900e-003	0.0592	0.4627	7.1000e-004		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	61.4586	61.4586	0.0145	0.0000	61.8198
<b>Total</b>	<b>8.6900e-003</b>	<b>0.0592</b>	<b>0.4627</b>	<b>7.1000e-004</b>		<b>1.0800e-003</b>	<b>1.0800e-003</b>		<b>1.0800e-003</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>61.4586</b>	<b>61.4586</b>	<b>0.0145</b>	<b>0.0000</b>	<b>61.8198</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	6.1500e-003	0.2394	0.0711	9.4000e-004	0.0299	1.2800e-003	0.0312	8.6500e-003	1.2300e-003	9.8800e-003	0.0000	91.1741	91.1741	2.2300e-003	0.0134	95.2325
Worker	0.0280	0.0158	0.2259	6.6000e-004	0.0817	4.0000e-004	0.0821	0.0217	3.7000e-004	0.0221	0.0000	62.3927	62.3927	1.7100e-003	1.6300e-003	62.9208
<b>Total</b>	<b>0.0342</b>	<b>0.2552</b>	<b>0.2970</b>	<b>1.6000e-003</b>	<b>0.1117</b>	<b>1.6800e-003</b>	<b>0.1134</b>	<b>0.0304</b>	<b>1.6000e-003</b>	<b>0.0320</b>	<b>0.0000</b>	<b>153.5667</b>	<b>153.5667</b>	<b>3.9400e-003</b>	<b>0.0151</b>	<b>158.1533</b>

**3.4 Grading - 2022**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4924	0.0000	0.4924	0.1955	0.0000	0.1955	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1939	2.0781	1.5537	3.3200e-003		0.0875	0.0875		0.0805	0.0805	0.0000	291.7601	291.7601	0.0944	0.0000	294.1191
<b>Total</b>	<b>0.1939</b>	<b>2.0781</b>	<b>1.5537</b>	<b>3.3200e-003</b>	<b>0.4924</b>	<b>0.0875</b>	<b>0.5799</b>	<b>0.1955</b>	<b>0.0805</b>	<b>0.2760</b>	<b>0.0000</b>	<b>291.7601</b>	<b>291.7601</b>	<b>0.0944</b>	<b>0.0000</b>	<b>294.1191</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	0.0000	0.0000	0.0000	0.0000	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	3.3000e-003	2.1500e-003	0.0270	7.0000e-005	7.8600e-003	4.0000e-005	7.9000e-003	2.0900e-003	4.0000e-005	2.1300e-003	0.0000	6.4711	6.4711	2.2000e-004	1.9000e-004	6.5346
<b>Total</b>	<b>3.3000e-003</b>	<b>2.1500e-003</b>	<b>0.0270</b>	<b>7.0000e-005</b>	<b>7.8600e-003</b>	<b>4.0000e-005</b>	<b>7.9000e-003</b>	<b>2.0900e-003</b>	<b>4.0000e-005</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>6.4711</b>	<b>6.4711</b>	<b>2.2000e-004</b>	<b>1.9000e-004</b>	<b>6.5346</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					0.2216	0.0000	0.2216	0.0880	0.0000	0.0880	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0407	0.1766	1.7655	3.3200e-003		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003	0.0000	291.7598	291.7598	0.0944	0.0000	294.1188
<b>Total</b>	<b>0.0407</b>	<b>0.1766</b>	<b>1.7655</b>	<b>3.3200e-003</b>	<b>0.2216</b>	<b>5.4300e-003</b>	<b>0.2270</b>	<b>0.0880</b>	<b>5.4300e-003</b>	<b>0.0934</b>	<b>0.0000</b>	<b>291.7598</b>	<b>291.7598</b>	<b>0.0944</b>	<b>0.0000</b>	<b>294.1188</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	0.0000	0.0000	0.0000	0.0000	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	3.3000e-003	2.1500e-003	0.0270	7.0000e-005	7.8600e-003	4.0000e-005	7.9000e-003	2.0900e-003	4.0000e-005	2.1300e-003	0.0000	6.4711	6.4711	2.2000e-004	1.9000e-004	6.5346
<b>Total</b>	<b>3.3000e-003</b>	<b>2.1500e-003</b>	<b>0.0270</b>	<b>7.0000e-005</b>	<b>7.8600e-003</b>	<b>4.0000e-005</b>	<b>7.9000e-003</b>	<b>2.0900e-003</b>	<b>4.0000e-005</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>6.4711</b>	<b>6.4711</b>	<b>2.2000e-004</b>	<b>1.9000e-004</b>	<b>6.5346</b>

**3.5 Paving - 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	0.0279	0.2617	0.4446	7.0000e-004		0.0128	0.0128		0.0117	0.0117	0.0000	61.0587	61.0587	0.0198	0.0000	61.5524
Paving	9.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0378</b>	<b>0.2617</b>	<b>0.4446</b>	<b>7.0000e-004</b>		<b>0.0128</b>	<b>0.0128</b>		<b>0.0117</b>	<b>0.0117</b>	<b>0.0000</b>	<b>61.0587</b>	<b>61.0587</b>	<b>0.0198</b>	<b>0.0000</b>	<b>61.5524</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 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	0.0000	0.0000	0.0000	0.0000	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	1.1500e-003	6.5000e-004	9.2900e-003	3.0000e-005	3.3600e-003	2.0000e-005	3.3800e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.5647	2.5647	7.0000e-005	7.0000e-005	2.5864
<b>Total</b>	<b>1.1500e-003</b>	<b>6.5000e-004</b>	<b>9.2900e-003</b>	<b>3.0000e-005</b>	<b>3.3600e-003</b>	<b>2.0000e-005</b>	<b>3.3800e-003</b>	<b>8.9000e-004</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>2.5647</b>	<b>2.5647</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.5864</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	8.5500e-003	0.0371	0.5275	7.0000e-004		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	61.0587	61.0587	0.0198	0.0000	61.5524
Paving	9.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0184</b>	<b>0.0371</b>	<b>0.5275</b>	<b>7.0000e-004</b>		<b>1.1400e-003</b>	<b>1.1400e-003</b>		<b>1.1400e-003</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>61.0587</b>	<b>61.0587</b>	<b>0.0198</b>	<b>0.0000</b>	<b>61.5524</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 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	0.0000	0.0000	0.0000	0.0000	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	1.1500e-003	6.5000e-004	9.2900e-003	3.0000e-005	3.3600e-003	2.0000e-005	3.3800e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.5647	2.5647	7.0000e-005	7.0000e-005	2.5864
<b>Total</b>	<b>1.1500e-003</b>	<b>6.5000e-004</b>	<b>9.2900e-003</b>	<b>3.0000e-005</b>	<b>3.3600e-003</b>	<b>2.0000e-005</b>	<b>3.3800e-003</b>	<b>8.9000e-004</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>2.5647</b>	<b>2.5647</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.5864</b>

**3.6 Architectural Coating - 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					
Archit. Coating	3.5803					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2100e-003	0.0349	0.0552	9.0000e-005		1.5700e-003	1.5700e-003		1.5700e-003	1.5700e-003	0.0000	7.7874	7.7874	4.2000e-004	0.0000	7.7980
<b>Total</b>	<b>3.5855</b>	<b>0.0349</b>	<b>0.0552</b>	<b>9.0000e-005</b>		<b>1.5700e-003</b>	<b>1.5700e-003</b>		<b>1.5700e-003</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>7.7874</b>	<b>7.7874</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>7.7980</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	6.4500e-003	3.6300e-003	0.0520	1.5000e-004	0.0188	9.0000e-005	0.0189	5.0000e-003	8.0000e-005	5.0900e-003	0.0000	14.3621	14.3621	3.9000e-004	3.7000e-004	14.4837
<b>Total</b>	<b>6.4500e-003</b>	<b>3.6300e-003</b>	<b>0.0520</b>	<b>1.5000e-004</b>	<b>0.0188</b>	<b>9.0000e-005</b>	<b>0.0189</b>	<b>5.0000e-003</b>	<b>8.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>14.3621</b>	<b>14.3621</b>	<b>3.9000e-004</b>	<b>3.7000e-004</b>	<b>14.4837</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	3.5803					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	3.9300e-003	0.0559	9.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.7874	7.7874	4.2000e-004	0.0000	7.7980
<b>Total</b>	<b>3.5812</b>	<b>3.9300e-003</b>	<b>0.0559</b>	<b>9.0000e-005</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>7.7874</b>	<b>7.7874</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>7.7980</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	6.4500e-003	3.6300e-003	0.0520	1.5000e-004	0.0188	9.0000e-005	0.0189	5.0000e-003	8.0000e-005	5.0900e-003	0.0000	14.3621	14.3621	3.9000e-004	3.7000e-004	14.4837
<b>Total</b>	<b>6.4500e-003</b>	<b>3.6300e-003</b>	<b>0.0520</b>	<b>1.5000e-004</b>	<b>0.0188</b>	<b>9.0000e-005</b>	<b>0.0189</b>	<b>5.0000e-003</b>	<b>8.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>14.3621</b>	<b>14.3621</b>	<b>3.9000e-004</b>	<b>3.7000e-004</b>	<b>14.4837</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - CNU Phase 1B**

**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	200.00	1000sqft	4.59	200,000.00	0
University/College (4yr)	2,000.00	Student	8.44	216,000.00	0
General Light Industry	40.00	1000sqft	0.92	40,000.00	0
Enclosed Parking with Elevator	233.00	Space	2.10	93,200.00	0
Parking Lot	661.00	Space	5.95	264,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2026
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - CNU Phasw 1B Construction ONLY

Land Use - U1, C2, C4 + parking

Construction Phase - Demolition part of PUD

Trips and VMT - Truck capacity = 7 CY

Grading - material import for 20' above grade work

Construction Off-road Equipment Mitigation - MM Tier 4f Scenario + Fugitive dust BMPs

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	35.00	52.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	370.00	450.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblLandUse	LandUseSquareFeet	367,594.94	216,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	5,102.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2284	2.4223	2.0555	6.6300e-003	0.5683	0.0813	0.6495	0.2202	0.0756	0.2957	0.0000	613.2165	613.2165	0.0890	0.0429	628.2335
2024	0.3276	2.6602	3.2812	9.3800e-003	0.4118	0.0864	0.4982	0.1119	0.0813	0.1932	0.0000	863.0529	863.0529	0.0867	0.0532	881.0806
2025	2.3076	1.1093	1.4851	4.0100e-003	0.1691	0.0354	0.2045	0.0459	0.0332	0.0791	0.0000	368.2542	368.2542	0.0420	0.0206	375.4318
<b>Maximum</b>	<b>2.3076</b>	<b>2.6602</b>	<b>3.2812</b>	<b>9.3800e-003</b>	<b>0.5683</b>	<b>0.0864</b>	<b>0.6495</b>	<b>0.2202</b>	<b>0.0813</b>	<b>0.2957</b>	<b>0.0000</b>	<b>863.0529</b>	<b>863.0529</b>	<b>0.0890</b>	<b>0.0532</b>	<b>881.0806</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	tons/yr										MT/yr					
2023	0.0925	0.9030	2.2555	6.6300e-003	0.3556	9.8300e-003	0.3654	0.1263	9.5900e-003	0.1359	0.0000	613.2162	613.2162	0.0890	0.0429	628.2332
2024	0.1778	1.1918	3.4506	9.3800e-003	0.4118	0.0114	0.4232	0.1119	0.0111	0.1229	0.0000	863.0525	863.0525	0.0867	0.0532	881.0803
2025	2.2443	0.4774	1.5902	4.0100e-003	0.1691	4.9600e-003	0.1741	0.0459	4.8400e-003	0.0508	0.0000	368.2540	368.2540	0.0420	0.0206	375.4316
<b>Maximum</b>	<b>2.2443</b>	<b>1.1918</b>	<b>3.4506</b>	<b>9.3800e-003</b>	<b>0.4118</b>	<b>0.0114</b>	<b>0.4232</b>	<b>0.1263</b>	<b>0.0111</b>	<b>0.1359</b>	<b>0.0000</b>	<b>863.0525</b>	<b>863.0525</b>	<b>0.0890</b>	<b>0.0532</b>	<b>881.0803</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	12.19	58.46	-6.96	0.00	18.51	87.11	28.81	24.85	86.59	45.51	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
8	5-22-2023	8-21-2023	1.4439	0.5003
9	8-22-2023	11-21-2023	0.8317	0.3211
10	11-22-2023	2-21-2024	0.7757	0.3549
11	2-22-2024	5-21-2024	0.7325	0.3355
12	5-22-2024	8-21-2024	0.7426	0.3367
13	8-22-2024	11-21-2024	0.7507	0.3448
14	11-22-2024	2-21-2025	0.7323	0.3465
15	2-22-2025	5-21-2025	0.6823	0.3239
16	5-22-2025	8-21-2025	2.1936	2.0776
		Highest	2.1936	2.0776

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0240	3.6000e-004	0.0399	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0778	0.0778	2.0000e-004	0.0000	0.0828
Energy	0.1101	1.0011	0.8409	6.0100e-003		0.0761	0.0761		0.0761	0.0761	0.0000	2,196.9772	2,196.9772	0.1230	0.0324	2,209.6916
Mobile	1.9475	2.2958	16.7125	0.0340	3.7244	0.0268	3.7513	0.9955	0.0251	1.0206	0.0000	3,150.9755	3,150.9755	0.2305	0.1635	3,205.4696
Waste						0.0000	0.0000		0.0000	0.0000	522.6205	0.0000	522.6205	30.8860	0.0000	1,294.7703
Water						0.0000	0.0000		0.0000	0.0000	13.6668	37.7758	51.4425	0.0505	0.0301	61.6882
<b>Total</b>	<b>4.0817</b>	<b>3.2972</b>	<b>17.5934</b>	<b>0.0400</b>	<b>3.7244</b>	<b>0.1030</b>	<b>3.8275</b>	<b>0.9955</b>	<b>0.1013</b>	<b>1.0968</b>	<b>536.2873</b>	<b>5,385.8063</b>	<b>5,922.0936</b>	<b>31.2902</b>	<b>0.2260</b>	<b>6,771.7024</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0240	3.6000e-004	0.0399	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0778	0.0778	2.0000e-004	0.0000	0.0828
Energy	0.1101	1.0011	0.8409	6.0100e-003		0.0761	0.0761		0.0761	0.0761	0.0000	2,196.9772	2,196.9772	0.1230	0.0324	2,209.6916
Mobile	1.9475	2.2958	16.7125	0.0340	3.7244	0.0268	3.7513	0.9955	0.0251	1.0206	0.0000	3,150.9755	3,150.9755	0.2305	0.1635	3,205.4696
Waste						0.0000	0.0000		0.0000	0.0000	522.6205	0.0000	522.6205	30.8860	0.0000	1,294.7703
Water						0.0000	0.0000		0.0000	0.0000	13.6668	37.7758	51.4425	0.0505	0.0301	61.6882
<b>Total</b>	<b>4.0817</b>	<b>3.2972</b>	<b>17.5934</b>	<b>0.0400</b>	<b>3.7244</b>	<b>0.1030</b>	<b>3.8275</b>	<b>0.9955</b>	<b>0.1013</b>	<b>1.0968</b>	<b>536.2873</b>	<b>5,385.8063</b>	<b>5,922.0936</b>	<b>31.2902</b>	<b>0.2260</b>	<b>6,771.7024</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/21/2023	5	15	
2	Grading	Grading	6/22/2023	9/1/2023	5	52	
3	Building Construction	Building Construction	9/4/2023	5/23/2025	5	450	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Paving	Paving	5/26/2025	6/27/2025	5	25
5	Architectural Coating	Architectural Coating	6/30/2025	8/1/2025	5	25

**Acres of Grading (Site Preparation Phase): 22.5**

**Acres of Grading (Grading Phase): 156**

**Acres of Paving: 8.05**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 684,000; Non-Residential Outdoor: 228,000; Striped Parking Area: 21,456 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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
Site Preparation	7	18.00	0.00	5,102.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	322.00	133.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	64.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1474	0.0000	0.1474	0.0758	0.0000	0.0758	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.2064	0.1368	2.9000e-004		9.5000e-003	9.5000e-003		8.7400e-003	8.7400e-003	0.0000	25.0880	25.0880	8.1100e-003	0.0000	25.2909
<b>Total</b>	<b>0.0200</b>	<b>0.2064</b>	<b>0.1368</b>	<b>2.9000e-004</b>	<b>0.1474</b>	<b>9.5000e-003</b>	<b>0.1569</b>	<b>0.0758</b>	<b>8.7400e-003</b>	<b>0.0845</b>	<b>0.0000</b>	<b>25.0880</b>	<b>25.0880</b>	<b>8.1100e-003</b>	<b>0.0000</b>	<b>25.2909</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7800e-003	0.4061	0.0816	1.6000e-003	0.0431	2.9600e-003	0.0461	0.0119	2.8300e-003	0.0147	0.0000	158.4948	158.4948	6.3100e-003	0.0251	166.1415
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	3.9000e-004	2.4000e-004	3.1500e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7954	0.7954	3.0000e-005	2.0000e-005	0.8028
<b>Total</b>	<b>7.1700e-003</b>	<b>0.4063</b>	<b>0.0847</b>	<b>1.6100e-003</b>	<b>0.0441</b>	<b>2.9700e-003</b>	<b>0.0471</b>	<b>0.0121</b>	<b>2.8300e-003</b>	<b>0.0150</b>	<b>0.0000</b>	<b>159.2902</b>	<b>159.2902</b>	<b>6.3400e-003</b>	<b>0.0252</b>	<b>166.9443</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					0.0663	0.0000	0.0663	0.0341	0.0000	0.0341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0151	0.1565	2.9000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	25.0880	25.0880	8.1100e-003	0.0000	25.2908
<b>Total</b>	<b>3.4900e-003</b>	<b>0.0151</b>	<b>0.1565</b>	<b>2.9000e-004</b>	<b>0.0663</b>	<b>4.7000e-004</b>	<b>0.0668</b>	<b>0.0341</b>	<b>4.7000e-004</b>	<b>0.0346</b>	<b>0.0000</b>	<b>25.0880</b>	<b>25.0880</b>	<b>8.1100e-003</b>	<b>0.0000</b>	<b>25.2908</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7800e-003	0.4061	0.0816	1.6000e-003	0.0431	2.9600e-003	0.0461	0.0119	2.8300e-003	0.0147	0.0000	158.4948	158.4948	6.3100e-003	0.0251	166.1415
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	3.9000e-004	2.4000e-004	3.1500e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7954	0.7954	3.0000e-005	2.0000e-005	0.8028
<b>Total</b>	<b>7.1700e-003</b>	<b>0.4063</b>	<b>0.0847</b>	<b>1.6100e-003</b>	<b>0.0441</b>	<b>2.9700e-003</b>	<b>0.0471</b>	<b>0.0121</b>	<b>2.8300e-003</b>	<b>0.0150</b>	<b>0.0000</b>	<b>159.2902</b>	<b>159.2902</b>	<b>6.3400e-003</b>	<b>0.0252</b>	<b>166.9443</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2393	0.0000	0.2393	0.0950	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0864	0.8974	0.7293	1.6100e-003		0.0370	0.0370		0.0341	0.0341	0.0000	141.7915	141.7915	0.0459	0.0000	142.9380
<b>Total</b>	<b>0.0864</b>	<b>0.8974</b>	<b>0.7293</b>	<b>1.6100e-003</b>	<b>0.2393</b>	<b>0.0370</b>	<b>0.2763</b>	<b>0.0950</b>	<b>0.0341</b>	<b>0.1291</b>	<b>0.0000</b>	<b>141.7915</b>	<b>141.7915</b>	<b>0.0459</b>	<b>0.0000</b>	<b>142.9380</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.2000e-004	0.0121	3.0000e-005	3.8200e-003	2.0000e-005	3.8400e-003	1.0200e-003	2.0000e-005	1.0300e-003	0.0000	3.0637	3.0637	1.0000e-004	9.0000e-005	3.0923
<b>Total</b>	<b>1.4900e-003</b>	<b>9.2000e-004</b>	<b>0.0121</b>	<b>3.0000e-005</b>	<b>3.8200e-003</b>	<b>2.0000e-005</b>	<b>3.8400e-003</b>	<b>1.0200e-003</b>	<b>2.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.0637</b>	<b>3.0637</b>	<b>1.0000e-004</b>	<b>9.0000e-005</b>	<b>3.0923</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					0.1077	0.0000	0.1077	0.0428	0.0000	0.0428	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.0858	0.8580	1.6100e-003		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	141.7914	141.7914	0.0459	0.0000	142.9378
<b>Total</b>	<b>0.0198</b>	<b>0.0858</b>	<b>0.8580</b>	<b>1.6100e-003</b>	<b>0.1077</b>	<b>2.6400e-003</b>	<b>0.1103</b>	<b>0.0428</b>	<b>2.6400e-003</b>	<b>0.0454</b>	<b>0.0000</b>	<b>141.7914</b>	<b>141.7914</b>	<b>0.0459</b>	<b>0.0000</b>	<b>142.9378</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.2000e-004	0.0121	3.0000e-005	3.8200e-003	2.0000e-005	3.8400e-003	1.0200e-003	2.0000e-005	1.0300e-003	0.0000	3.0637	3.0637	1.0000e-004	9.0000e-005	3.0923
<b>Total</b>	<b>1.4900e-003</b>	<b>9.2000e-004</b>	<b>0.0121</b>	<b>3.0000e-005</b>	<b>3.8200e-003</b>	<b>2.0000e-005</b>	<b>3.8400e-003</b>	<b>1.0200e-003</b>	<b>2.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.0637</b>	<b>3.0637</b>	<b>1.0000e-004</b>	<b>9.0000e-005</b>	<b>3.0923</b>

**3.4 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	0.0668	0.6114	0.6904	1.1500e-003		0.0297	0.0297		0.0280	0.0280	0.0000	98.5170	98.5170	0.0234	0.0000	99.1029
<b>Total</b>	<b>0.0668</b>	<b>0.6114</b>	<b>0.6904</b>	<b>1.1500e-003</b>		<b>0.0297</b>	<b>0.0297</b>		<b>0.0280</b>	<b>0.0280</b>	<b>0.0000</b>	<b>98.5170</b>	<b>98.5170</b>	<b>0.0234</b>	<b>0.0000</b>	<b>99.1029</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 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	7.3700e-003	0.2755	0.0831	1.0800e-003	0.0331	1.4700e-003	0.0346	9.5700e-003	1.4000e-003	0.0110	0.0000	104.8365	104.8365	2.5900e-003	0.0154	109.4852
Worker	0.0393	0.0243	0.3190	8.7000e-004	0.1005	5.4000e-004	0.1010	0.0267	4.9000e-004	0.0272	0.0000	80.6295	80.6295	2.5500e-003	2.3000e-003	81.3800
<b>Total</b>	<b>0.0466</b>	<b>0.2998</b>	<b>0.4021</b>	<b>1.9500e-003</b>	<b>0.1336</b>	<b>2.0100e-003</b>	<b>0.1356</b>	<b>0.0363</b>	<b>1.8900e-003</b>	<b>0.0382</b>	<b>0.0000</b>	<b>185.4660</b>	<b>185.4660</b>	<b>5.1400e-003</b>	<b>0.0177</b>	<b>190.8652</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	0.0139	0.0950	0.7421	1.1500e-003		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	98.5169	98.5169	0.0234	0.0000	99.1028
<b>Total</b>	<b>0.0139</b>	<b>0.0950</b>	<b>0.7421</b>	<b>1.1500e-003</b>		<b>1.7300e-003</b>	<b>1.7300e-003</b>		<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>98.5169</b>	<b>98.5169</b>	<b>0.0234</b>	<b>0.0000</b>	<b>99.1028</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 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	7.3700e-003	0.2755	0.0831	1.0800e-003	0.0331	1.4700e-003	0.0346	9.5700e-003	1.4000e-003	0.0110	0.0000	104.8365	104.8365	2.5900e-003	0.0154	109.4852
Worker	0.0393	0.0243	0.3190	8.7000e-004	0.1005	5.4000e-004	0.1010	0.0267	4.9000e-004	0.0272	0.0000	80.6295	80.6295	2.5500e-003	2.3000e-003	81.3800
<b>Total</b>	<b>0.0466</b>	<b>0.2998</b>	<b>0.4021</b>	<b>1.9500e-003</b>	<b>0.1336</b>	<b>2.0100e-003</b>	<b>0.1356</b>	<b>0.0363</b>	<b>1.8900e-003</b>	<b>0.0382</b>	<b>0.0000</b>	<b>185.4660</b>	<b>185.4660</b>	<b>5.1400e-003</b>	<b>0.0177</b>	<b>190.8652</b>

**3.4 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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 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	0.0217	0.8325	0.2481	3.2600e-003	0.1020	4.4600e-003	0.1064	0.0295	4.2600e-003	0.0337	0.0000	317.0059	317.0059	7.7400e-003	0.0466	331.0917
Worker	0.1131	0.0666	0.9153	2.5900e-003	0.3098	1.5800e-003	0.3114	0.0824	1.4500e-003	0.0839	0.0000	242.3246	242.3246	7.1300e-003	6.6000e-003	244.4711
<b>Total</b>	<b>0.1349</b>	<b>0.8991</b>	<b>1.1633</b>	<b>5.8500e-003</b>	<b>0.4118</b>	<b>6.0400e-003</b>	<b>0.4178</b>	<b>0.1119</b>	<b>5.7100e-003</b>	<b>0.1176</b>	<b>0.0000</b>	<b>559.3305</b>	<b>559.3305</b>	<b>0.0149</b>	<b>0.0532</b>	<b>575.5628</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	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.0429</b>	<b>0.2928</b>	<b>2.2873</b>	<b>3.5300e-003</b>		<b>5.3400e-003</b>	<b>5.3400e-003</b>		<b>5.3400e-003</b>	<b>5.3400e-003</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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 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	0.0217	0.8325	0.2481	3.2600e-003	0.1020	4.4600e-003	0.1064	0.0295	4.2600e-003	0.0337	0.0000	317.0059	317.0059	7.7400e-003	0.0466	331.0917
Worker	0.1131	0.0666	0.9153	2.5900e-003	0.3098	1.5800e-003	0.3114	0.0824	1.4500e-003	0.0839	0.0000	242.3246	242.3246	7.1300e-003	6.6000e-003	244.4711
<b>Total</b>	<b>0.1349</b>	<b>0.8991</b>	<b>1.1633</b>	<b>5.8500e-003</b>	<b>0.4118</b>	<b>6.0400e-003</b>	<b>0.4178</b>	<b>0.1119</b>	<b>5.7100e-003</b>	<b>0.1176</b>	<b>0.0000</b>	<b>559.3305</b>	<b>559.3305</b>	<b>0.0149</b>	<b>0.0532</b>	<b>575.5628</b>

**3.4 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	0.0704	0.6422	0.8284	1.3900e-003		0.0272	0.0272		0.0256	0.0256	0.0000	119.4385	119.4385	0.0281	0.0000	120.1404
<b>Total</b>	<b>0.0704</b>	<b>0.6422</b>	<b>0.8284</b>	<b>1.3900e-003</b>		<b>0.0272</b>	<b>0.0272</b>		<b>0.0256</b>	<b>0.0256</b>	<b>0.0000</b>	<b>119.4385</b>	<b>119.4385</b>	<b>0.0281</b>	<b>0.0000</b>	<b>120.1404</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 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	8.2300e-003	0.3206	0.0952	1.2500e-003	0.0401	1.7200e-003	0.0418	0.0116	1.6400e-003	0.0132	0.0000	122.1032	122.1032	2.9800e-003	0.0180	127.5384
Worker	0.0418	0.0235	0.3366	9.8000e-004	0.1218	5.9000e-004	0.1224	0.0324	5.5000e-004	0.0329	0.0000	92.9611	92.9611	2.5500e-003	2.4300e-003	93.7481
<b>Total</b>	<b>0.0500</b>	<b>0.3441</b>	<b>0.4318</b>	<b>2.2300e-003</b>	<b>0.1619</b>	<b>2.3100e-003</b>	<b>0.1642</b>	<b>0.0440</b>	<b>2.1900e-003</b>	<b>0.0462</b>	<b>0.0000</b>	<b>215.0643</b>	<b>215.0643</b>	<b>5.5300e-003</b>	<b>0.0204</b>	<b>221.2865</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	0.0169	0.1151	0.8992	1.3900e-003		2.1000e-003	2.1000e-003		2.1000e-003	2.1000e-003	0.0000	119.4384	119.4384	0.0281	0.0000	120.1403
<b>Total</b>	<b>0.0169</b>	<b>0.1151</b>	<b>0.8992</b>	<b>1.3900e-003</b>		<b>2.1000e-003</b>	<b>2.1000e-003</b>		<b>2.1000e-003</b>	<b>2.1000e-003</b>	<b>0.0000</b>	<b>119.4384</b>	<b>119.4384</b>	<b>0.0281</b>	<b>0.0000</b>	<b>120.1403</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 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	8.2300e-003	0.3206	0.0952	1.2500e-003	0.0401	1.7200e-003	0.0418	0.0116	1.6400e-003	0.0132	0.0000	122.1032	122.1032	2.9800e-003	0.0180	127.5384
Worker	0.0418	0.0235	0.3366	9.8000e-004	0.1218	5.9000e-004	0.1224	0.0324	5.5000e-004	0.0329	0.0000	92.9611	92.9611	2.5500e-003	2.4300e-003	93.7481
<b>Total</b>	<b>0.0500</b>	<b>0.3441</b>	<b>0.4318</b>	<b>2.2300e-003</b>	<b>0.1619</b>	<b>2.3100e-003</b>	<b>0.1642</b>	<b>0.0440</b>	<b>2.1900e-003</b>	<b>0.0462</b>	<b>0.0000</b>	<b>215.0643</b>	<b>215.0643</b>	<b>5.5300e-003</b>	<b>0.0204</b>	<b>221.2865</b>

**3.5 Paving - 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	0.0114	0.1073	0.1822	2.8000e-004		5.2300e-003	5.2300e-003		4.8100e-003	4.8100e-003	0.0000	25.0241	25.0241	8.0900e-003	0.0000	25.2264
Paving	7.7900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0192</b>	<b>0.1073</b>	<b>0.1822</b>	<b>2.8000e-004</b>		<b>5.2300e-003</b>	<b>5.2300e-003</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>	<b>0.0000</b>	<b>25.0241</b>	<b>25.0241</b>	<b>8.0900e-003</b>	<b>0.0000</b>	<b>25.2264</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	2.7000e-004	3.8100e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3800e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0511	1.0511	3.0000e-005	3.0000e-005	1.0600
<b>Total</b>	<b>4.7000e-004</b>	<b>2.7000e-004</b>	<b>3.8100e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.0511</b>	<b>1.0511</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0600</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	3.5100e-003	0.0152	0.2162	2.8000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	25.0240	25.0240	8.0900e-003	0.0000	25.2264
Paving	7.7900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0113</b>	<b>0.0152</b>	<b>0.2162</b>	<b>2.8000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>25.0240</b>	<b>25.0240</b>	<b>8.0900e-003</b>	<b>0.0000</b>	<b>25.2264</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	2.7000e-004	3.8100e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3800e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0511	1.0511	3.0000e-005	3.0000e-005	1.0600
<b>Total</b>	<b>4.7000e-004</b>	<b>2.7000e-004</b>	<b>3.8100e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.0511</b>	<b>1.0511</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0600</b>

**3.6 Architectural Coating - 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					
Archit. Coating	2.1633					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1400e-003	0.0143	0.0226	4.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	3.1916	3.1916	1.7000e-004	0.0000	3.1959
<b>Total</b>	<b>2.1654</b>	<b>0.0143</b>	<b>0.0226</b>	<b>4.0000e-005</b>		<b>6.4000e-004</b>	<b>6.4000e-004</b>		<b>6.4000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>3.1916</b>	<b>3.1916</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>3.1959</b>

Innovation Park - CNU Phase 1B - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	2.0200e-003	1.1300e-003	0.0162	5.0000e-005	5.8800e-003	3.0000e-005	5.9000e-003	1.5600e-003	3.0000e-005	1.5900e-003	0.0000	4.4847	4.4847	1.2000e-004	1.2000e-004	4.5226
<b>Total</b>	<b>2.0200e-003</b>	<b>1.1300e-003</b>	<b>0.0162</b>	<b>5.0000e-005</b>	<b>5.8800e-003</b>	<b>3.0000e-005</b>	<b>5.9000e-003</b>	<b>1.5600e-003</b>	<b>3.0000e-005</b>	<b>1.5900e-003</b>	<b>0.0000</b>	<b>4.4847</b>	<b>4.4847</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>4.5226</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	2.1633					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7000e-004	1.6100e-003	0.0229	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.1916	3.1916	1.7000e-004	0.0000	3.1959
<b>Total</b>	<b>2.1637</b>	<b>1.6100e-003</b>	<b>0.0229</b>	<b>4.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>3.1916</b>	<b>3.1916</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>3.1959</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	2.0200e-003	1.1300e-003	0.0162	5.0000e-005	5.8800e-003	3.0000e-005	5.9000e-003	1.5600e-003	3.0000e-005	1.5900e-003	0.0000	4.4847	4.4847	1.2000e-004	1.2000e-004	4.5226
<b>Total</b>	<b>2.0200e-003</b>	<b>1.1300e-003</b>	<b>0.0162</b>	<b>5.0000e-005</b>	<b>5.8800e-003</b>	<b>3.0000e-005</b>	<b>5.9000e-003</b>	<b>1.5600e-003</b>	<b>3.0000e-005</b>	<b>1.5900e-003</b>	<b>0.0000</b>	<b>4.4847</b>	<b>4.4847</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>4.5226</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - CNU - Phase 2A**

**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	325.00	1000sqft	7.46	325,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2029
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - Ambulatory Care Building and Medical Building Construction ONLY

Land Use - Med bldg + care bldg

Construction Phase - schedule

Trips and VMT - 15 truck per day for site prep, demo, grade

Grading -

Area Coating -

Construction Off-road Equipment Mitigation - Tier 4 MM scenario + dust BMPs

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingValue	100	0

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	NumDays	20.00	16.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	230.00	383.00
tblConstructionPhase	NumDays	20.00	34.00
tblConstructionPhase	NumDays	20.00	34.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	HaulingTripNumber	0.00	135.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.0548	0.5538	0.5174	1.2500e-003	0.1613	0.0214	0.1827	0.0773	0.0198	0.0971	0.0000	112.6363	112.6363	0.0246	4.0100e-003	114.4452
2028	0.2140	1.9406	2.4153	5.4200e-003	0.1396	0.0706	0.2102	0.0381	0.0664	0.1045	0.0000	487.6935	487.6935	0.0753	0.0188	495.1704
2029	1.6134	0.9623	1.2782	2.6800e-003	0.0620	0.0370	0.0990	0.0169	0.0348	0.0516	0.0000	240.7425	240.7425	0.0422	7.6400e-003	244.0759
<b>Maximum</b>	<b>1.6134</b>	<b>1.9406</b>	<b>2.4153</b>	<b>5.4200e-003</b>	<b>0.1613</b>	<b>0.0706</b>	<b>0.2102</b>	<b>0.0773</b>	<b>0.0664</b>	<b>0.1045</b>	<b>0.0000</b>	<b>487.6935</b>	<b>487.6935</b>	<b>0.0753</b>	<b>0.0188</b>	<b>495.1704</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	tons/yr										MT/yr					
2027	0.0151	0.1200	0.5983	1.2500e-003	0.0815	1.9500e-003	0.0834	0.0372	1.9300e-003	0.0391	0.0000	112.6362	112.6362	0.0246	4.0100e-003	114.4451
2028	0.0788	0.6101	2.5942	5.4200e-003	0.1396	7.3200e-003	0.1469	0.0381	7.2200e-003	0.0453	0.0000	487.6931	487.6931	0.0753	0.0188	495.1700
2029	1.5446	0.2722	1.3984	2.6800e-003	0.0620	3.7100e-003	0.0657	0.0169	3.6700e-003	0.0205	0.0000	240.7423	240.7423	0.0422	7.6400e-003	244.0758
<b>Maximum</b>	<b>1.5446</b>	<b>0.6101</b>	<b>2.5942</b>	<b>5.4200e-003</b>	<b>0.1396</b>	<b>7.3200e-003</b>	<b>0.1469</b>	<b>0.0381</b>	<b>7.2200e-003</b>	<b>0.0453</b>	<b>0.0000</b>	<b>487.6931</b>	<b>487.6931</b>	<b>0.0753</b>	<b>0.0188</b>	<b>495.1700</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	12.94	71.00	-9.02	0.00	22.00	89.94	39.82	30.32	89.41	58.56	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-15-2027	1-14-2028	0.6678	0.1588
2	1-15-2028	4-14-2028	0.5403	0.1738
3	4-15-2028	7-14-2028	0.5358	0.1694
4	7-15-2028	10-14-2028	0.5425	0.1720
5	10-15-2028	1-14-2029	0.5467	0.1763
6	1-15-2029	4-14-2029	0.5324	0.1700
7	4-15-2029	7-14-2029	0.4209	0.1082
8	7-15-2029	9-30-2029	1.4853	1.4606
		Highest	1.4853	1.4606

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4203	4.0000e-005	4.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0700e-003	8.0700e-003	2.0000e-005	0.0000	8.5900e-003
Energy	0.1173	1.0665	0.8958	6.4000e-003		0.0811	0.0811		0.0811	0.0811	0.0000	2,182.1047	2,182.1047	0.1164	0.0327	2,194.7572
Mobile	1.2342	1.4720	11.3087	0.0240	2.8817	0.0175	2.8991	0.7701	0.0163	0.7863	0.0000	2,332.8099	2,332.8099	0.1535	0.1109	2,369.7071
Waste						0.0000	0.0000		0.0000	0.0000	712.4983	0.0000	712.4983	42.1074	0.0000	1,765.1843
Water						0.0000	0.0000		0.0000	0.0000	14.4284	37.4090	51.8375	0.0531	0.0318	62.6402
<b>Total</b>	<b>2.7718</b>	<b>2.5385</b>	<b>12.2086</b>	<b>0.0304</b>	<b>2.8817</b>	<b>0.0985</b>	<b>2.9802</b>	<b>0.7701</b>	<b>0.0974</b>	<b>0.8674</b>	<b>726.9267</b>	<b>4,552.3316</b>	<b>5,279.2584</b>	<b>42.4304</b>	<b>0.1754</b>	<b>6,392.2973</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4203	4.0000e-005	4.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0700e-003	8.0700e-003	2.0000e-005	0.0000	8.5900e-003
Energy	0.1173	1.0665	0.8958	6.4000e-003		0.0811	0.0811		0.0811	0.0811	0.0000	2,182.1047	2,182.1047	0.1164	0.0327	2,194.7572
Mobile	1.2342	1.4720	11.3087	0.0240	2.8817	0.0175	2.8991	0.7701	0.0163	0.7863	0.0000	2,332.8099	2,332.8099	0.1535	0.1109	2,369.7071
Waste						0.0000	0.0000		0.0000	0.0000	712.4983	0.0000	712.4983	42.1074	0.0000	1,765.1843
Water						0.0000	0.0000		0.0000	0.0000	14.4284	37.4090	51.8375	0.0531	0.0318	62.6402
<b>Total</b>	<b>2.7718</b>	<b>2.5385</b>	<b>12.2086</b>	<b>0.0304</b>	<b>2.8817</b>	<b>0.0985</b>	<b>2.9802</b>	<b>0.7701</b>	<b>0.0974</b>	<b>0.8674</b>	<b>726.9267</b>	<b>4,552.3316</b>	<b>5,279.2584</b>	<b>42.4304</b>	<b>0.1754</b>	<b>6,392.2973</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>

**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	10/15/2027	11/5/2027	5	16	
2	Site Preparation	Site Preparation	11/8/2027	11/18/2027	5	9	
3	Grading	Grading	11/19/2027	12/10/2027	5	16	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Building Construction	Building Construction	12/10/2027	5/29/2029	5	383
5	Paving	Paving	5/30/2029	7/16/2029	5	34
6	Architectural Coating	Architectural Coating	7/17/2029	8/31/2029	5	34

**Acres of Grading (Site Preparation Phase): 13.5**

**Acres of Grading (Grading Phase): 16**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 487,500; Non-Residential Outdoor: 162,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Architectural Coating	Air Compressors	1	6.00	78	0.48
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	135.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	104.00	53.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 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	0.0167	0.1536	0.1554	3.1000e-004		6.8200e-003	6.8200e-003		6.3400e-003	6.3400e-003	0.0000	27.1981	27.1981	7.5900e-003	0.0000	27.3880
<b>Total</b>	<b>0.0167</b>	<b>0.1536</b>	<b>0.1554</b>	<b>3.1000e-004</b>		<b>6.8200e-003</b>	<b>6.8200e-003</b>		<b>6.3400e-003</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>27.1981</b>	<b>27.1981</b>	<b>7.5900e-003</b>	<b>0.0000</b>	<b>27.3880</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	2.9000e-004	0.0172	3.8700e-003	7.0000e-005	2.0300e-003	1.3000e-004	2.1600e-003	5.6000e-004	1.2000e-004	6.8000e-004	0.0000	6.8498	6.8498	2.7000e-004	1.0900e-003	7.1804
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	2.7000e-004	1.4000e-004	2.1700e-003	1.0000e-005	8.8000e-004	0.0000	8.9000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6420	0.6420	2.0000e-005	2.0000e-005	0.6471
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0173</b>	<b>6.0400e-003</b>	<b>8.0000e-005</b>	<b>2.9100e-003</b>	<b>1.3000e-004</b>	<b>3.0500e-003</b>	<b>7.9000e-004</b>	<b>1.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>7.4918</b>	<b>7.4918</b>	<b>2.9000e-004</b>	<b>1.1100e-003</b>	<b>7.8274</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	3.7000e-003	0.0160	0.1862	3.1000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	27.1981	27.1981	7.5900e-003	0.0000	27.3880
<b>Total</b>	<b>3.7000e-003</b>	<b>0.0160</b>	<b>0.1862</b>	<b>3.1000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>27.1981</b>	<b>27.1981</b>	<b>7.5900e-003</b>	<b>0.0000</b>	<b>27.3880</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	2.9000e-004	0.0172	3.8700e-003	7.0000e-005	2.0300e-003	1.3000e-004	2.1600e-003	5.6000e-004	1.2000e-004	6.8000e-004	0.0000	6.8498	6.8498	2.7000e-004	1.0900e-003	7.1804
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	2.7000e-004	1.4000e-004	2.1700e-003	1.0000e-005	8.8000e-004	0.0000	8.9000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6420	0.6420	2.0000e-005	2.0000e-005	0.6471
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0173</b>	<b>6.0400e-003</b>	<b>8.0000e-005</b>	<b>2.9100e-003</b>	<b>1.3000e-004</b>	<b>3.0500e-003</b>	<b>7.9000e-004</b>	<b>1.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>7.4918</b>	<b>7.4918</b>	<b>2.9000e-004</b>	<b>1.1100e-003</b>	<b>7.8274</b>

**3.3 Site Preparation - 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					
Fugitive Dust					0.0885	0.0000	0.0885	0.0455	0.0000	0.0455	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0885</b>	<b>4.8900e-003</b>	<b>0.0934</b>	<b>0.0455</b>	<b>4.5000e-003</b>	<b>0.0500</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

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**3.3 Site Preparation - 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	1.6000e-004	9.6600e-003	2.1800e-003	4.0000e-005	1.1400e-003	7.0000e-005	1.2100e-003	3.1000e-004	7.0000e-005	3.8000e-004	0.0000	3.8530	3.8530	1.5000e-004	6.1000e-004	4.0390
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-004	1.0000e-004	1.4700e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4333	0.4333	1.0000e-005	1.0000e-005	0.4368
<b>Total</b>	<b>3.4000e-004</b>	<b>9.7600e-003</b>	<b>3.6500e-003</b>	<b>4.0000e-005</b>	<b>1.7300e-003</b>	<b>7.0000e-005</b>	<b>1.8100e-003</b>	<b>4.7000e-004</b>	<b>7.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>4.2863</b>	<b>4.2863</b>	<b>1.6000e-004</b>	<b>6.2000e-004</b>	<b>4.4757</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					0.0398	0.0000	0.0398	0.0205	0.0000	0.0205	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	9.0800e-003	0.0939	1.7000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>2.1000e-003</b>	<b>9.0800e-003</b>	<b>0.0939</b>	<b>1.7000e-004</b>	<b>0.0398</b>	<b>2.8000e-004</b>	<b>0.0401</b>	<b>0.0205</b>	<b>2.8000e-004</b>	<b>0.0207</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	1.6000e-004	9.6600e-003	2.1800e-003	4.0000e-005	1.1400e-003	7.0000e-005	1.2100e-003	3.1000e-004	7.0000e-005	3.8000e-004	0.0000	3.8530	3.8530	1.5000e-004	6.1000e-004	4.0390
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-004	1.0000e-004	1.4700e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4333	0.4333	1.0000e-005	1.0000e-005	0.4368
<b>Total</b>	<b>3.4000e-004</b>	<b>9.7600e-003</b>	<b>3.6500e-003</b>	<b>4.0000e-005</b>	<b>1.7300e-003</b>	<b>7.0000e-005</b>	<b>1.8100e-003</b>	<b>4.7000e-004</b>	<b>7.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>4.2863</b>	<b>4.2863</b>	<b>1.6000e-004</b>	<b>6.2000e-004</b>	<b>4.4757</b>

**3.4 Grading - 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					
Fugitive Dust					0.0567	0.0000	0.0567	0.0274	0.0000	0.0274	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.1225	0.1163	2.4000e-004		4.9900e-003	4.9900e-003		4.5900e-003	4.5900e-003	0.0000	20.8559	20.8559	6.7500e-003	0.0000	21.0245
<b>Total</b>	<b>0.0122</b>	<b>0.1225</b>	<b>0.1163</b>	<b>2.4000e-004</b>	<b>0.0567</b>	<b>4.9900e-003</b>	<b>0.0617</b>	<b>0.0274</b>	<b>4.5900e-003</b>	<b>0.0320</b>	<b>0.0000</b>	<b>20.8559</b>	<b>20.8559</b>	<b>6.7500e-003</b>	<b>0.0000</b>	<b>21.0245</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	2.9000e-004	0.0172	3.8700e-003	7.0000e-005	2.0300e-003	1.3000e-004	2.1600e-003	5.6000e-004	1.2000e-004	6.8000e-004	0.0000	6.8498	6.8498	2.7000e-004	1.0900e-003	7.1804
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	2.7000e-004	1.4000e-004	2.1700e-003	1.0000e-005	8.8000e-004	0.0000	8.9000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6420	0.6420	2.0000e-005	2.0000e-005	0.6471
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0173</b>	<b>6.0400e-003</b>	<b>8.0000e-005</b>	<b>2.9100e-003</b>	<b>1.3000e-004</b>	<b>3.0500e-003</b>	<b>7.9000e-004</b>	<b>1.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>7.4918</b>	<b>7.4918</b>	<b>2.9000e-004</b>	<b>1.1100e-003</b>	<b>7.8274</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					0.0255	0.0000	0.0255	0.0123	0.0000	0.0123	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0126	0.1420	2.4000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	20.8558	20.8558	6.7500e-003	0.0000	21.0245
<b>Total</b>	<b>2.9100e-003</b>	<b>0.0126</b>	<b>0.1420</b>	<b>2.4000e-004</b>	<b>0.0255</b>	<b>3.9000e-004</b>	<b>0.0259</b>	<b>0.0123</b>	<b>3.9000e-004</b>	<b>0.0127</b>	<b>0.0000</b>	<b>20.8558</b>	<b>20.8558</b>	<b>6.7500e-003</b>	<b>0.0000</b>	<b>21.0245</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	2.9000e-004	0.0172	3.8700e-003	7.0000e-005	2.0300e-003	1.3000e-004	2.1600e-003	5.6000e-004	1.2000e-004	6.8000e-004	0.0000	6.8498	6.8498	2.7000e-004	1.0900e-003	7.1804
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	2.7000e-004	1.4000e-004	2.1700e-003	1.0000e-005	8.8000e-004	0.0000	8.9000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6420	0.6420	2.0000e-005	2.0000e-005	0.6471
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0173</b>	<b>6.0400e-003</b>	<b>8.0000e-005</b>	<b>2.9100e-003</b>	<b>1.3000e-004</b>	<b>3.0500e-003</b>	<b>7.9000e-004</b>	<b>1.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>7.4918</b>	<b>7.4918</b>	<b>2.9000e-004</b>	<b>1.1100e-003</b>	<b>7.8274</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	0.0109	0.0998	0.1287	2.2000e-004		4.2200e-003	4.2200e-003		3.9700e-003	3.9700e-003	0.0000	18.5536	18.5536	4.3600e-003	0.0000	18.6626
<b>Total</b>	<b>0.0109</b>	<b>0.0998</b>	<b>0.1287</b>	<b>2.2000e-004</b>		<b>4.2200e-003</b>	<b>4.2200e-003</b>		<b>3.9700e-003</b>	<b>3.9700e-003</b>	<b>0.0000</b>	<b>18.5536</b>	<b>18.5536</b>	<b>4.3600e-003</b>	<b>0.0000</b>	<b>18.6626</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	4.8000e-004	0.0191	5.6800e-003	7.0000e-005	2.4800e-003	1.0000e-004	2.5800e-003	7.2000e-004	1.0000e-004	8.1000e-004	0.0000	7.2476	7.2476	1.8000e-004	1.0700e-003	7.5714
Worker	1.8700e-003	9.8000e-004	0.0151	5.0000e-005	6.1100e-003	3.0000e-005	6.1400e-003	1.6300e-003	2.0000e-005	1.6500e-003	0.0000	4.4511	4.4511	1.1000e-004	1.1000e-004	4.4862
<b>Total</b>	<b>2.3500e-003</b>	<b>0.0201</b>	<b>0.0207</b>	<b>1.2000e-004</b>	<b>8.5900e-003</b>	<b>1.3000e-004</b>	<b>8.7200e-003</b>	<b>2.3500e-003</b>	<b>1.2000e-004</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>11.6987</b>	<b>11.6987</b>	<b>2.9000e-004</b>	<b>1.1800e-003</b>	<b>12.0576</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	2.6200e-003	0.0179	0.1397	2.2000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	18.5535	18.5535	4.3600e-003	0.0000	18.6626
<b>Total</b>	<b>2.6200e-003</b>	<b>0.0179</b>	<b>0.1397</b>	<b>2.2000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>18.5535</b>	<b>18.5535</b>	<b>4.3600e-003</b>	<b>0.0000</b>	<b>18.6626</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	4.8000e-004	0.0191	5.6800e-003	7.0000e-005	2.4800e-003	1.0000e-004	2.5800e-003	7.2000e-004	1.0000e-004	8.1000e-004	0.0000	7.2476	7.2476	1.8000e-004	1.0700e-003	7.5714
Worker	1.8700e-003	9.8000e-004	0.0151	5.0000e-005	6.1100e-003	3.0000e-005	6.1400e-003	1.6300e-003	2.0000e-005	1.6500e-003	0.0000	4.4511	4.4511	1.1000e-004	1.1000e-004	4.4862
<b>Total</b>	<b>2.3500e-003</b>	<b>0.0201</b>	<b>0.0207</b>	<b>1.2000e-004</b>	<b>8.5900e-003</b>	<b>1.3000e-004</b>	<b>8.7200e-003</b>	<b>2.3500e-003</b>	<b>1.2000e-004</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>11.6987</b>	<b>11.6987</b>	<b>2.9000e-004</b>	<b>1.1800e-003</b>	<b>12.0576</b>

**3.5 Building Construction - 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					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
<b>Total</b>	<b>0.1778</b>	<b>1.6211</b>	<b>2.0910</b>	<b>3.5000e-003</b>		<b>0.0686</b>	<b>0.0686</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>301.4953</b>	<b>301.4953</b>	<b>0.0709</b>	<b>0.0000</b>	<b>303.2671</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	7.5000e-003	0.3050	0.0910	1.1800e-003	0.0403	1.6100e-003	0.0419	0.0117	1.5400e-003	0.0132	0.0000	115.3551	115.3551	2.8000e-003	0.0171	120.5170
Worker	0.0287	0.0146	0.2334	7.3000e-004	0.0993	4.1000e-004	0.0997	0.0264	3.8000e-004	0.0268	0.0000	70.8431	70.8431	1.6000e-003	1.6900e-003	71.3863
<b>Total</b>	<b>0.0362</b>	<b>0.3196</b>	<b>0.3243</b>	<b>1.9100e-003</b>	<b>0.1396</b>	<b>2.0200e-003</b>	<b>0.1416</b>	<b>0.0381</b>	<b>1.9200e-003</b>	<b>0.0400</b>	<b>0.0000</b>	<b>186.1982</b>	<b>186.1982</b>	<b>4.4000e-003</b>	<b>0.0188</b>	<b>191.9033</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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
<b>Total</b>	<b>0.0426</b>	<b>0.2905</b>	<b>2.2698</b>	<b>3.5000e-003</b>		<b>5.3000e-003</b>	<b>5.3000e-003</b>		<b>5.3000e-003</b>	<b>5.3000e-003</b>	<b>0.0000</b>	<b>301.4949</b>	<b>301.4949</b>	<b>0.0709</b>	<b>0.0000</b>	<b>303.2667</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	7.5000e-003	0.3050	0.0910	1.1800e-003	0.0403	1.6100e-003	0.0419	0.0117	1.5400e-003	0.0132	0.0000	115.3551	115.3551	2.8000e-003	0.0171	120.5170
Worker	0.0287	0.0146	0.2334	7.3000e-004	0.0993	4.1000e-004	0.0997	0.0264	3.8000e-004	0.0268	0.0000	70.8431	70.8431	1.6000e-003	1.6900e-003	71.3863
<b>Total</b>	<b>0.0362</b>	<b>0.3196</b>	<b>0.3243</b>	<b>1.9100e-003</b>	<b>0.1396</b>	<b>2.0200e-003</b>	<b>0.1416</b>	<b>0.0381</b>	<b>1.9200e-003</b>	<b>0.0400</b>	<b>0.0000</b>	<b>186.1982</b>	<b>186.1982</b>	<b>4.4000e-003</b>	<b>0.0188</b>	<b>191.9033</b>

**3.5 Building Construction - 2029**

**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	0.0732	0.6671	0.8605	1.4400e-003		0.0282	0.0282		0.0266	0.0266	0.0000	124.0769	124.0769	0.0292	0.0000	124.8061
<b>Total</b>	<b>0.0732</b>	<b>0.6671</b>	<b>0.8605</b>	<b>1.4400e-003</b>		<b>0.0282</b>	<b>0.0282</b>		<b>0.0266</b>	<b>0.0266</b>	<b>0.0000</b>	<b>124.0769</b>	<b>124.0769</b>	<b>0.0292</b>	<b>0.0000</b>	<b>124.8061</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-003	0.1236	0.0370	4.8000e-004	0.0166	6.5000e-004	0.0172	4.7900e-003	6.2000e-004	5.4200e-003	0.0000	46.5416	46.5416	1.1300e-003	6.9000e-003	48.6272
Worker	0.0112	5.5900e-003	0.0920	2.9000e-004	0.0409	1.6000e-004	0.0410	0.0109	1.4000e-004	0.0110	0.0000	28.6044	28.6044	6.1000e-004	6.7000e-004	28.8185
<b>Total</b>	<b>0.0142</b>	<b>0.1292</b>	<b>0.1289</b>	<b>7.7000e-004</b>	<b>0.0575</b>	<b>8.1000e-004</b>	<b>0.0583</b>	<b>0.0157</b>	<b>7.6000e-004</b>	<b>0.0164</b>	<b>0.0000</b>	<b>75.1460</b>	<b>75.1460</b>	<b>1.7400e-003</b>	<b>7.5700e-003</b>	<b>77.4457</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	0.0175	0.1196	0.9341	1.4400e-003		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	124.0768	124.0768	0.0292	0.0000	124.8059
<b>Total</b>	<b>0.0175</b>	<b>0.1196</b>	<b>0.9341</b>	<b>1.4400e-003</b>		<b>2.1800e-003</b>	<b>2.1800e-003</b>		<b>2.1800e-003</b>	<b>2.1800e-003</b>	<b>0.0000</b>	<b>124.0768</b>	<b>124.0768</b>	<b>0.0292</b>	<b>0.0000</b>	<b>124.8059</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-003	0.1236	0.0370	4.8000e-004	0.0166	6.5000e-004	0.0172	4.7900e-003	6.2000e-004	5.4200e-003	0.0000	46.5416	46.5416	1.1300e-003	6.9000e-003	48.6272
Worker	0.0112	5.5900e-003	0.0920	2.9000e-004	0.0409	1.6000e-004	0.0410	0.0109	1.4000e-004	0.0110	0.0000	28.6044	28.6044	6.1000e-004	6.7000e-004	28.8185
<b>Total</b>	<b>0.0142</b>	<b>0.1292</b>	<b>0.1289</b>	<b>7.7000e-004</b>	<b>0.0575</b>	<b>8.1000e-004</b>	<b>0.0583</b>	<b>0.0157</b>	<b>7.6000e-004</b>	<b>0.0164</b>	<b>0.0000</b>	<b>75.1460</b>	<b>75.1460</b>	<b>1.7400e-003</b>	<b>7.5700e-003</b>	<b>77.4457</b>

**3.6 Paving - 2029**

**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	0.0156	0.1459	0.2478	3.9000e-004		7.1100e-003	7.1100e-003		6.5500e-003	6.5500e-003	0.0000	34.0327	34.0327	0.0110	0.0000	34.3079
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>0.0156</b>	<b>0.1459</b>	<b>0.2478</b>	<b>3.9000e-004</b>		<b>7.1100e-003</b>	<b>7.1100e-003</b>		<b>6.5500e-003</b>	<b>6.5500e-003</b>	<b>0.0000</b>	<b>34.0327</b>	<b>34.0327</b>	<b>0.0110</b>	<b>0.0000</b>	<b>34.3079</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**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	5.1000e-004	2.6000e-004	4.2200e-003	1.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.0000e-004	0.0000	1.3110	1.3110	3.0000e-005	3.0000e-005	1.3208
<b>Total</b>	<b>5.1000e-004</b>	<b>2.6000e-004</b>	<b>4.2200e-003</b>	<b>1.0000e-005</b>	<b>1.8700e-003</b>	<b>1.0000e-005</b>	<b>1.8800e-003</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.3110</b>	<b>1.3110</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3208</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	4.7700e-003	0.0207	0.2940	3.9000e-004		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	34.0327	34.0327	0.0110	0.0000	34.3079
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>4.7700e-003</b>	<b>0.0207</b>	<b>0.2940</b>	<b>3.9000e-004</b>		<b>6.4000e-004</b>	<b>6.4000e-004</b>		<b>6.4000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>34.0327</b>	<b>34.0327</b>	<b>0.0110</b>	<b>0.0000</b>	<b>34.3079</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**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	5.1000e-004	2.6000e-004	4.2200e-003	1.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.0000e-004	0.0000	1.3110	1.3110	3.0000e-005	3.0000e-005	1.3208
<b>Total</b>	<b>5.1000e-004</b>	<b>2.6000e-004</b>	<b>4.2200e-003</b>	<b>1.0000e-005</b>	<b>1.8700e-003</b>	<b>1.0000e-005</b>	<b>1.8800e-003</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.3110</b>	<b>1.3110</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3208</b>

**3.7 Architectural Coating - 2029**

**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	1.5064					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0195	0.0308	5.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	4.3405	4.3405	2.4000e-004	0.0000	4.3465
<b>Total</b>	<b>1.5093</b>	<b>0.0195</b>	<b>0.0308</b>	<b>5.0000e-005</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>4.3405</b>	<b>4.3405</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>4.3465</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	3.6000e-004	5.9000e-003	2.0000e-005	2.6200e-003	1.0000e-005	2.6300e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	1.8353	1.8353	4.0000e-005	4.0000e-005	1.8491
<b>Total</b>	<b>7.2000e-004</b>	<b>3.6000e-004</b>	<b>5.9000e-003</b>	<b>2.0000e-005</b>	<b>2.6200e-003</b>	<b>1.0000e-005</b>	<b>2.6300e-003</b>	<b>7.0000e-004</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>1.8353</b>	<b>1.8353</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.8491</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	1.5064					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	2.1900e-003	0.0312	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.3405	4.3405	2.4000e-004	0.0000	4.3465
<b>Total</b>	<b>1.5069</b>	<b>2.1900e-003</b>	<b>0.0312</b>	<b>5.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>4.3405</b>	<b>4.3405</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>4.3465</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	3.6000e-004	5.9000e-003	2.0000e-005	2.6200e-003	1.0000e-005	2.6300e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	1.8353	1.8353	4.0000e-005	4.0000e-005	1.8491
<b>Total</b>	<b>7.2000e-004</b>	<b>3.6000e-004</b>	<b>5.9000e-003</b>	<b>2.0000e-005</b>	<b>2.6200e-003</b>	<b>1.0000e-005</b>	<b>2.6300e-003</b>	<b>7.0000e-004</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>1.8353</b>	<b>1.8353</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.8491</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	430.00	Space	3.87	181,000.00	0
Strip Mall	26.00	1000sqft	0.60	26,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2029
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Retail/Parking Building 1  
 Land Use - Parking/retail  
 Construction Phase - Construction schedule adjusted  
 Trips and VMT - 20 trucks/day for grade/demo/site prep  
 Grading -  
 Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	5.00	8.00
tblConstructionPhase	NumDays	8.00	13.00
tblConstructionPhase	NumDays	230.00	286.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	18.00	22.00
tblLandUse	LandUseSquareFeet	172,000.00	181,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	600.00
tblTripsAndVMT	HaulingTripNumber	0.00	160.00
tblTripsAndVMT	HaulingTripNumber	0.00	260.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	0.1767	1.6573	1.8834	4.1500e-003	0.1998	0.0637	0.2635	0.0831	0.0596	0.1427	0.0000	371.4958	371.4958	0.0696	0.0120	376.8004
2029	0.2663	1.0088	1.3262	2.6800e-003	0.0561	0.0394	0.0955	0.0152	0.0371	0.0523	0.0000	238.1805	238.1805	0.0428	6.0900e-003	241.0635
<b>Maximum</b>	<b>0.2663</b>	<b>1.6573</b>	<b>1.8834</b>	<b>4.1500e-003</b>	<b>0.1998</b>	<b>0.0637</b>	<b>0.2635</b>	<b>0.0831</b>	<b>0.0596</b>	<b>0.1427</b>	<b>0.0000</b>	<b>371.4958</b>	<b>371.4958</b>	<b>0.0696</b>	<b>0.0120</b>	<b>376.8004</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	tons/yr										MT/yr					
2028	0.0556	0.4189	2.0814	4.1500e-003	0.1313	6.0300e-003	0.1373	0.0486	5.9700e-003	0.0546	0.0000	371.4955	371.4955	0.0696	0.0120	376.8001
2029	0.1905	0.2594	1.4308	2.6800e-003	0.0561	3.6900e-003	0.0598	0.0152	3.6600e-003	0.0189	0.0000	238.1803	238.1803	0.0428	6.0900e-003	241.0633
<b>Maximum</b>	<b>0.1905</b>	<b>0.4189</b>	<b>2.0814</b>	<b>4.1500e-003</b>	<b>0.1313</b>	<b>6.0300e-003</b>	<b>0.1373</b>	<b>0.0486</b>	<b>5.9700e-003</b>	<b>0.0546</b>	<b>0.0000</b>	<b>371.4955</b>	<b>371.4955</b>	<b>0.0696</b>	<b>0.0120</b>	<b>376.8001</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	44.45	74.56	-9.43	0.00	26.80	90.58	45.12	35.07	90.04	62.32	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-17-2028	6-16-2028	0.7336	0.1641
2	6-17-2028	9-16-2028	0.5125	0.1420
3	9-17-2028	12-16-2028	0.5097	0.1433
4	12-17-2028	3-16-2029	0.5035	0.1411
5	3-17-2029	6-16-2029	0.5117	0.1412
6	6-17-2029	9-16-2029	0.3242	0.1821
		Highest	0.7336	0.1821

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1284	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0113	0.0113	3.0000e-005	0.0000	0.0121
Energy	7.5000e-004	6.8400e-003	5.7500e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	214.7022	214.7022	0.0193	2.4500e-003	215.9142
Mobile	0.3200	0.3068	2.3491	4.1300e-003	0.4805	3.2300e-003	0.4837	0.1284	3.0100e-003	0.1314	0.0000	401.1767	401.1767	0.0339	0.0229	408.8548
Waste						0.0000	0.0000		0.0000	0.0000	5.5417	0.0000	5.5417	0.3275	0.0000	13.7292
Water						0.0000	0.0000		0.0000	0.0000	0.6814	2.2290	2.9104	2.5500e-003	1.5100e-003	3.4231
<b>Total</b>	<b>0.4491</b>	<b>0.3137</b>	<b>2.3607</b>	<b>4.1700e-003</b>	<b>0.4805</b>	<b>3.7700e-003</b>	<b>0.4843</b>	<b>0.1284</b>	<b>3.5500e-003</b>	<b>0.1320</b>	<b>6.2230</b>	<b>618.1192</b>	<b>624.3422</b>	<b>0.3832</b>	<b>0.0269</b>	<b>641.9334</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1284	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0113	0.0113	3.0000e-005	0.0000	0.0121
Energy	7.5000e-004	6.8400e-003	5.7500e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	214.7022	214.7022	0.0193	2.4500e-003	215.9142
Mobile	0.3200	0.3068	2.3491	4.1300e-003	0.4805	3.2300e-003	0.4837	0.1284	3.0100e-003	0.1314	0.0000	401.1767	401.1767	0.0339	0.0229	408.8548
Waste						0.0000	0.0000		0.0000	0.0000	5.5417	0.0000	5.5417	0.3275	0.0000	13.7292
Water						0.0000	0.0000		0.0000	0.0000	0.6814	2.2290	2.9104	2.5500e-003	1.5100e-003	3.4231
<b>Total</b>	<b>0.4491</b>	<b>0.3137</b>	<b>2.3607</b>	<b>4.1700e-003</b>	<b>0.4805</b>	<b>3.7700e-003</b>	<b>0.4843</b>	<b>0.1284</b>	<b>3.5500e-003</b>	<b>0.1320</b>	<b>6.2230</b>	<b>618.1192</b>	<b>624.3422</b>	<b>0.3832</b>	<b>0.0269</b>	<b>641.9334</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/17/2028	4/27/2028	5	30	
2	Site Preparation	Site Preparation	4/28/2028	5/9/2028	5	8	
3	Grading	Grading	5/10/2028	5/26/2028	5	13	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Building Construction	Building Construction	5/26/2028	6/29/2029	5	286
5	Paving	Paving	7/2/2029	7/31/2029	5	22
6	Architectural Coating	Architectural Coating	8/1/2029	8/31/2029	5	22

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 13**

**Acres of Paving: 3.87**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 39,000; Non-Residential Outdoor: 13,000; Striped Parking Area: 10,860 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	600.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	160.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	260.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	84.00	34.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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					
Off-Road	0.0314	0.2880	0.2913	5.8000e-004		0.0128	0.0128		0.0119	0.0119	0.0000	50.9965	50.9965	0.0142	0.0000	51.3525
<b>Total</b>	<b>0.0314</b>	<b>0.2880</b>	<b>0.2913</b>	<b>5.8000e-004</b>		<b>0.0128</b>	<b>0.0128</b>		<b>0.0119</b>	<b>0.0119</b>	<b>0.0000</b>	<b>50.9965</b>	<b>50.9965</b>	<b>0.0142</b>	<b>0.0000</b>	<b>51.3525</b>

**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	7.1000e-004	0.0420	9.6900e-003	1.7000e-004	5.0700e-003	3.1000e-004	5.3800e-003	1.3900e-003	3.0000e-004	1.6900e-003	0.0000	16.7473	16.7473	6.7000e-004	2.6600e-003	17.5557
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.4000e-004	3.8800e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.1790	1.1790	3.0000e-005	3.0000e-005	1.1880
<b>Total</b>	<b>1.1900e-003</b>	<b>0.0422</b>	<b>0.0136</b>	<b>1.8000e-004</b>	<b>6.7200e-003</b>	<b>3.2000e-004</b>	<b>7.0400e-003</b>	<b>1.8300e-003</b>	<b>3.1000e-004</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>17.9263</b>	<b>17.9263</b>	<b>7.0000e-004</b>	<b>2.6900e-003</b>	<b>18.7437</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2028**

**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	6.9300e-003	0.0301	0.3492	5.8000e-004		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	50.9964	50.9964	0.0142	0.0000	51.3524
<b>Total</b>	<b>6.9300e-003</b>	<b>0.0301</b>	<b>0.3492</b>	<b>5.8000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>50.9964</b>	<b>50.9964</b>	<b>0.0142</b>	<b>0.0000</b>	<b>51.3524</b>

**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	7.1000e-004	0.0420	9.6900e-003	1.7000e-004	5.0700e-003	3.1000e-004	5.3800e-003	1.3900e-003	3.0000e-004	1.6900e-003	0.0000	16.7473	16.7473	6.7000e-004	2.6600e-003	17.5557
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.4000e-004	3.8800e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.1790	1.1790	3.0000e-005	3.0000e-005	1.1880
<b>Total</b>	<b>1.1900e-003</b>	<b>0.0422</b>	<b>0.0136</b>	<b>1.8000e-004</b>	<b>6.7200e-003</b>	<b>3.2000e-004</b>	<b>7.0400e-003</b>	<b>1.8300e-003</b>	<b>3.1000e-004</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>17.9263</b>	<b>17.9263</b>	<b>7.0000e-004</b>	<b>2.6900e-003</b>	<b>18.7437</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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					
Fugitive Dust					0.0786	0.0000	0.0786	0.0404	0.0000	0.0404	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8900e-003	0.1009	0.0717	1.5000e-004		4.3500e-003	4.3500e-003		4.0000e-003	4.0000e-003	0.0000	13.3868	13.3868	4.3300e-003	0.0000	13.4950
<b>Total</b>	<b>9.8900e-003</b>	<b>0.1009</b>	<b>0.0717</b>	<b>1.5000e-004</b>	<b>0.0786</b>	<b>4.3500e-003</b>	<b>0.0830</b>	<b>0.0404</b>	<b>4.0000e-003</b>	<b>0.0444</b>	<b>0.0000</b>	<b>13.3868</b>	<b>13.3868</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>13.4950</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9000e-004	0.0112	2.5800e-003	5.0000e-005	1.3500e-003	8.0000e-005	1.4400e-003	3.7000e-004	8.0000e-005	4.5000e-004	0.0000	4.4659	4.4659	1.8000e-004	7.1000e-004	4.6815
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	1.5000e-004	8.0000e-005	1.2400e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3773	0.3773	1.0000e-005	1.0000e-005	0.3802
<b>Total</b>	<b>3.4000e-004</b>	<b>0.0113</b>	<b>3.8200e-003</b>	<b>5.0000e-005</b>	<b>1.8800e-003</b>	<b>8.0000e-005</b>	<b>1.9700e-003</b>	<b>5.1000e-004</b>	<b>8.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>4.8432</b>	<b>4.8432</b>	<b>1.9000e-004</b>	<b>7.2000e-004</b>	<b>5.0617</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2028**

**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					0.0354	0.0000	0.0354	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8600e-003	8.0700e-003	0.0835	1.5000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	13.3868	13.3868	4.3300e-003	0.0000	13.4950
<b>Total</b>	<b>1.8600e-003</b>	<b>8.0700e-003</b>	<b>0.0835</b>	<b>1.5000e-004</b>	<b>0.0354</b>	<b>2.5000e-004</b>	<b>0.0356</b>	<b>0.0182</b>	<b>2.5000e-004</b>	<b>0.0184</b>	<b>0.0000</b>	<b>13.3868</b>	<b>13.3868</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>13.4950</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9000e-004	0.0112	2.5800e-003	5.0000e-005	1.3500e-003	8.0000e-005	1.4400e-003	3.7000e-004	8.0000e-005	4.5000e-004	0.0000	4.4659	4.4659	1.8000e-004	7.1000e-004	4.6815
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	1.5000e-004	8.0000e-005	1.2400e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3773	0.3773	1.0000e-005	1.0000e-005	0.3802
<b>Total</b>	<b>3.4000e-004</b>	<b>0.0113</b>	<b>3.8200e-003</b>	<b>5.0000e-005</b>	<b>1.8800e-003</b>	<b>8.0000e-005</b>	<b>1.9700e-003</b>	<b>5.1000e-004</b>	<b>8.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>4.8432</b>	<b>4.8432</b>	<b>1.9000e-004</b>	<b>7.2000e-004</b>	<b>5.0617</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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					
Fugitive Dust					0.0460	0.0000	0.0460	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-003	0.0996	0.0945	1.9000e-004		4.0500e-003	4.0500e-003		3.7300e-003	3.7300e-003	0.0000	16.9454	16.9454	5.4800e-003	0.0000	17.0824
<b>Total</b>	<b>9.9000e-003</b>	<b>0.0996</b>	<b>0.0945</b>	<b>1.9000e-004</b>	<b>0.0460</b>	<b>4.0500e-003</b>	<b>0.0501</b>	<b>0.0223</b>	<b>3.7300e-003</b>	<b>0.0260</b>	<b>0.0000</b>	<b>16.9454</b>	<b>16.9454</b>	<b>5.4800e-003</b>	<b>0.0000</b>	<b>17.0824</b>

**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	3.1000e-004	0.0182	4.2000e-003	7.0000e-005	2.2000e-003	1.4000e-004	2.3300e-003	6.0000e-004	1.3000e-004	7.3000e-004	0.0000	7.2572	7.2572	2.9000e-004	1.1500e-003	7.6075
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	2.1000e-004	1.1000e-004	1.6800e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5109	0.5109	1.0000e-005	1.0000e-005	0.5148
<b>Total</b>	<b>5.2000e-004</b>	<b>0.0183</b>	<b>5.8800e-003</b>	<b>8.0000e-005</b>	<b>2.9200e-003</b>	<b>1.4000e-004</b>	<b>3.0500e-003</b>	<b>7.9000e-004</b>	<b>1.3000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>7.7680</b>	<b>7.7680</b>	<b>3.0000e-004</b>	<b>1.1600e-003</b>	<b>8.1223</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0207	0.0000	0.0207	0.0100	0.0000	0.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3600e-003	0.0102	0.1154	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.9454	16.9454	5.4800e-003	0.0000	17.0824
<b>Total</b>	<b>2.3600e-003</b>	<b>0.0102</b>	<b>0.1154</b>	<b>1.9000e-004</b>	<b>0.0207</b>	<b>3.1000e-004</b>	<b>0.0210</b>	<b>0.0100</b>	<b>3.1000e-004</b>	<b>0.0103</b>	<b>0.0000</b>	<b>16.9454</b>	<b>16.9454</b>	<b>5.4800e-003</b>	<b>0.0000</b>	<b>17.0824</b>

**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	3.1000e-004	0.0182	4.2000e-003	7.0000e-005	2.2000e-003	1.4000e-004	2.3300e-003	6.0000e-004	1.3000e-004	7.3000e-004	0.0000	7.2572	7.2572	2.9000e-004	1.1500e-003	7.6075
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	2.1000e-004	1.1000e-004	1.6800e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5109	0.5109	1.0000e-005	1.0000e-005	0.5148
<b>Total</b>	<b>5.2000e-004</b>	<b>0.0183</b>	<b>5.8800e-003</b>	<b>8.0000e-005</b>	<b>2.9200e-003</b>	<b>1.4000e-004</b>	<b>3.0500e-003</b>	<b>7.9000e-004</b>	<b>1.3000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>7.7680</b>	<b>7.7680</b>	<b>3.0000e-004</b>	<b>1.1600e-003</b>	<b>8.1223</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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					
Off-Road	0.1067	0.9726	1.2546	2.1000e-003		0.0412	0.0412		0.0387	0.0387	0.0000	180.8972	180.8972	0.0425	0.0000	181.9603
<b>Total</b>	<b>0.1067</b>	<b>0.9726</b>	<b>1.2546</b>	<b>2.1000e-003</b>		<b>0.0412</b>	<b>0.0412</b>		<b>0.0387</b>	<b>0.0387</b>	<b>0.0000</b>	<b>180.8972</b>	<b>180.8972</b>	<b>0.0425</b>	<b>0.0000</b>	<b>181.9603</b>

**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	2.8900e-003	0.1174	0.0350	4.6000e-004	0.0155	6.2000e-004	0.0161	4.4800e-003	5.9000e-004	5.0800e-003	0.0000	44.4008	44.4008	1.0800e-003	6.5800e-003	46.3877
Worker	0.0139	7.0900e-003	0.1131	3.5000e-004	0.0481	2.0000e-004	0.0483	0.0128	1.8000e-004	0.0130	0.0000	34.3316	34.3316	7.8000e-004	8.2000e-004	34.5949
<b>Total</b>	<b>0.0168</b>	<b>0.1245</b>	<b>0.1481</b>	<b>8.1000e-004</b>	<b>0.0636</b>	<b>8.2000e-004</b>	<b>0.0645</b>	<b>0.0173</b>	<b>7.7000e-004</b>	<b>0.0181</b>	<b>0.0000</b>	<b>78.7325</b>	<b>78.7325</b>	<b>1.8600e-003</b>	<b>7.4000e-003</b>	<b>80.9826</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**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	0.0256	0.1743	1.3619	2.1000e-003		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	180.8970	180.8970	0.0425	0.0000	181.9600
<b>Total</b>	<b>0.0256</b>	<b>0.1743</b>	<b>1.3619</b>	<b>2.1000e-003</b>		<b>3.1800e-003</b>	<b>3.1800e-003</b>		<b>3.1800e-003</b>	<b>3.1800e-003</b>	<b>0.0000</b>	<b>180.8970</b>	<b>180.8970</b>	<b>0.0425</b>	<b>0.0000</b>	<b>181.9600</b>

**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	2.8900e-003	0.1174	0.0350	4.6000e-004	0.0155	6.2000e-004	0.0161	4.4800e-003	5.9000e-004	5.0800e-003	0.0000	44.4008	44.4008	1.0800e-003	6.5800e-003	46.3877
Worker	0.0139	7.0900e-003	0.1131	3.5000e-004	0.0481	2.0000e-004	0.0483	0.0128	1.8000e-004	0.0130	0.0000	34.3316	34.3316	7.8000e-004	8.2000e-004	34.5949
<b>Total</b>	<b>0.0168</b>	<b>0.1245</b>	<b>0.1481</b>	<b>8.1000e-004</b>	<b>0.0636</b>	<b>8.2000e-004</b>	<b>0.0645</b>	<b>0.0173</b>	<b>7.7000e-004</b>	<b>0.0181</b>	<b>0.0000</b>	<b>78.7325</b>	<b>78.7325</b>	<b>1.8600e-003</b>	<b>7.4000e-003</b>	<b>80.9826</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	0.0889	0.8105	1.0455	1.7500e-003		0.0343	0.0343		0.0323	0.0323	0.0000	150.7476	150.7476	0.0354	0.0000	151.6336
<b>Total</b>	<b>0.0889</b>	<b>0.8105</b>	<b>1.0455</b>	<b>1.7500e-003</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0323</b>	<b>0.0323</b>	<b>0.0000</b>	<b>150.7476</b>	<b>150.7476</b>	<b>0.0354</b>	<b>0.0000</b>	<b>151.6336</b>

**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	2.3400e-003	0.0963	0.0288	3.7000e-004	0.0129	5.1000e-004	0.0134	3.7400e-003	4.8000e-004	4.2200e-003	0.0000	36.2747	36.2747	8.8000e-004	5.3800e-003	37.9002
Worker	0.0110	5.4800e-003	0.0903	2.9000e-004	0.0401	1.5000e-004	0.0403	0.0107	1.4000e-004	0.0108	0.0000	28.0697	28.0697	6.0000e-004	6.5000e-004	28.2798
<b>Total</b>	<b>0.0133</b>	<b>0.1018</b>	<b>0.1191</b>	<b>6.6000e-004</b>	<b>0.0530</b>	<b>6.6000e-004</b>	<b>0.0537</b>	<b>0.0144</b>	<b>6.2000e-004</b>	<b>0.0150</b>	<b>0.0000</b>	<b>64.3445</b>	<b>64.3445</b>	<b>1.4800e-003</b>	<b>6.0300e-003</b>	<b>66.1801</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	0.0213	0.1453	1.1349	1.7500e-003		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	150.7475	150.7475	0.0354	0.0000	151.6334
<b>Total</b>	<b>0.0213</b>	<b>0.1453</b>	<b>1.1349</b>	<b>1.7500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>150.7475</b>	<b>150.7475</b>	<b>0.0354</b>	<b>0.0000</b>	<b>151.6334</b>

**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	2.3400e-003	0.0963	0.0288	3.7000e-004	0.0129	5.1000e-004	0.0134	3.7400e-003	4.8000e-004	4.2200e-003	0.0000	36.2747	36.2747	8.8000e-004	5.3800e-003	37.9002
Worker	0.0110	5.4800e-003	0.0903	2.9000e-004	0.0401	1.5000e-004	0.0403	0.0107	1.4000e-004	0.0108	0.0000	28.0697	28.0697	6.0000e-004	6.5000e-004	28.2798
<b>Total</b>	<b>0.0133</b>	<b>0.1018</b>	<b>0.1191</b>	<b>6.6000e-004</b>	<b>0.0530</b>	<b>6.6000e-004</b>	<b>0.0537</b>	<b>0.0144</b>	<b>6.2000e-004</b>	<b>0.0150</b>	<b>0.0000</b>	<b>64.3445</b>	<b>64.3445</b>	<b>1.4800e-003</b>	<b>6.0300e-003</b>	<b>66.1801</b>



Innovation Park CNU - Phase 2B - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0200e-003	0.0829	0.1340	2.1000e-004		3.8800e-003	3.8800e-003		3.5900e-003	3.5900e-003	0.0000	18.0161	18.0161	5.6600e-003	0.0000	18.1576
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>9.0200e-003</b>	<b>0.0829</b>	<b>0.1340</b>	<b>2.1000e-004</b>		<b>3.8800e-003</b>	<b>3.8800e-003</b>		<b>3.5900e-003</b>	<b>3.5900e-003</b>	<b>0.0000</b>	<b>18.0161</b>	<b>18.0161</b>	<b>5.6600e-003</b>	<b>0.0000</b>	<b>18.1576</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.2000e-004	3.6400e-003	1.0000e-005	1.6200e-003	1.0000e-005	1.6200e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.1310	1.1310	2.0000e-005	3.0000e-005	1.1395
<b>Total</b>	<b>4.4000e-004</b>	<b>2.2000e-004</b>	<b>3.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6200e-003</b>	<b>1.0000e-005</b>	<b>1.6200e-003</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.1310</b>	<b>1.1310</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1395</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**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	2.4100e-003	0.0105	0.1489	2.1000e-004		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	18.0161	18.0161	5.6600e-003	0.0000	18.1576
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>2.4100e-003</b>	<b>0.0105</b>	<b>0.1489</b>	<b>2.1000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>18.0161</b>	<b>18.0161</b>	<b>5.6600e-003</b>	<b>0.0000</b>	<b>18.1576</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.2000e-004	3.6400e-003	1.0000e-005	1.6200e-003	1.0000e-005	1.6200e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.1310	1.1310	2.0000e-005	3.0000e-005	1.1395
<b>Total</b>	<b>4.4000e-004</b>	<b>2.2000e-004</b>	<b>3.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6200e-003</b>	<b>1.0000e-005</b>	<b>1.6200e-003</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.1310</b>	<b>1.1310</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1395</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	0.1523					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9403
<b>Total</b>	<b>0.1543</b>	<b>0.0132</b>	<b>0.0208</b>	<b>3.0000e-005</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>2.9362</b>	<b>2.9362</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.9403</b>

**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	3.9000e-004	2.0000e-004	3.2300e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0051	1.0051	2.0000e-005	2.0000e-005	1.0126
<b>Total</b>	<b>3.9000e-004</b>	<b>2.0000e-004</b>	<b>3.2300e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.0051</b>	<b>1.0051</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0126</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	0.1523					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	1.4800e-003	0.0211	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9402
<b>Total</b>	<b>0.1526</b>	<b>1.4800e-003</b>	<b>0.0211</b>	<b>3.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.9362</b>	<b>2.9362</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.9402</b>

**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	3.9000e-004	2.0000e-004	3.2300e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0051	1.0051	2.0000e-005	2.0000e-005	1.0126
<b>Total</b>	<b>3.9000e-004</b>	<b>2.0000e-004</b>	<b>3.2300e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.0051</b>	<b>1.0051</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0126</b>

Innovation Park CNU Phase 2C - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2C  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	38.00	1000sqft	0.87	38,000.00	0
Enclosed Parking Structure	127.00	Space	1.14	38,000.00	0
Apartments Mid Rise	250.00	Dwelling Unit	6.58	154,000.00	668

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2025
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - Admin/ Dormitory Building 1 and Faculty Building 1 construction only

Land Use - Dorm 1 and Faculty bldg 1

Construction Phase - adjusted schedule13

Trips and VMT - 15 trucks per day for site prep, demo, grade

Grading -

Area Coating -

Construction Off-road Equipment Mitigation - Tier 4 MM + Dust BMPs

Area Mitigation -

Fleet Mix -

Innovation Park CNU Phase 2C - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	10.00	8.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	230.00	154.00
tblConstructionPhase	NumDays	20.00	14.00
tblConstructionPhase	NumDays	20.00	14.00
tblLandUse	LandUseSquareFeet	50,800.00	38,000.00
tblLandUse	LandUseSquareFeet	250,000.00	154,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	HaulingTripNumber	0.00	120.00
tblTripsAndVMT	HaulingTripNumber	0.00	255.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 2C - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0704	0.6642	0.6387	1.5100e-003	0.1683	0.0270	0.1953	0.0775	0.0251	0.1026	0.0000	136.0946	136.0946	0.0274	4.7300e-003	138.1903
2025	1.1967	1.0091	1.4662	3.2000e-003	0.1160	0.0384	0.1545	0.0312	0.0361	0.0673	0.0000	287.4304	287.4304	0.0430	8.6300e-003	291.0758
<b>Maximum</b>	<b>1.1967</b>	<b>1.0091</b>	<b>1.4662</b>	<b>3.2000e-003</b>	<b>0.1683</b>	<b>0.0384</b>	<b>0.1953</b>	<b>0.0775</b>	<b>0.0361</b>	<b>0.1026</b>	<b>0.0000</b>	<b>287.4304</b>	<b>287.4304</b>	<b>0.0430</b>	<b>8.6300e-003</b>	<b>291.0758</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	tons/yr										MT/yr					
2024	0.0220	0.1410	0.7190	1.5100e-003	0.0920	2.2500e-003	0.0942	0.0392	2.2200e-003	0.0415	0.0000	136.0945	136.0945	0.0274	4.7300e-003	138.1902
2025	1.1243	0.2908	1.5741	3.2000e-003	0.1160	4.0400e-003	0.1201	0.0312	3.9800e-003	0.0352	0.0000	287.4302	287.4302	0.0430	8.6300e-003	291.0756
<b>Maximum</b>	<b>1.1243</b>	<b>0.2908</b>	<b>1.5741</b>	<b>3.2000e-003</b>	<b>0.1160</b>	<b>4.0400e-003</b>	<b>0.1201</b>	<b>0.0392</b>	<b>3.9800e-003</b>	<b>0.0415</b>	<b>0.0000</b>	<b>287.4302</b>	<b>287.4302</b>	<b>0.0430</b>	<b>8.6300e-003</b>	<b>291.0756</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	9.53	74.19	-8.94	0.00	26.85	90.39	38.74	35.19	89.87	54.88	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-2-2024	1-1-2025	0.7423	0.1667
2	1-2-2025	4-1-2025	0.5343	0.1719
3	4-2-2025	7-1-2025	0.5339	0.1686
4	7-2-2025	9-30-2025	1.0603	1.0047
		Highest	1.0603	1.0047

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9443	0.0297	2.5778	1.4000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	4.2155	4.2155	4.0400e-003	0.0000	4.3166
Energy	0.0154	0.1327	0.0665	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	428.1670	428.1670	0.0284	5.8700e-003	430.6263
Mobile	0.7208	0.9093	6.5009	0.0136	1.4439	0.0107	1.4546	0.3860	0.0100	0.3960	0.0000	1,255.4569	1,255.4569	0.0878	0.0633	1,276.5148
Waste						0.0000	0.0000		0.0000	0.0000	30.5177	0.0000	30.5177	1.8035	0.0000	75.6062
Water						0.0000	0.0000		0.0000	0.0000	8.1524	26.8312	34.9836	0.0305	0.0180	41.1195
<b>Total</b>	<b>1.6805</b>	<b>1.0717</b>	<b>9.1452</b>	<b>0.0145</b>	<b>1.4439</b>	<b>0.0356</b>	<b>1.4795</b>	<b>0.3860</b>	<b>0.0349</b>	<b>0.4209</b>	<b>38.6701</b>	<b>1,714.6706</b>	<b>1,753.3407</b>	<b>1.9543</b>	<b>0.0872</b>	<b>1,828.1834</b>

Innovation Park CNU Phase 2C - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9443	0.0297	2.5778	1.4000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	4.2155	4.2155	4.0400e-003	0.0000	4.3166
Energy	0.0154	0.1327	0.0665	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	428.1670	428.1670	0.0284	5.8700e-003	430.6263
Mobile	0.7208	0.9093	6.5009	0.0136	1.4439	0.0107	1.4546	0.3860	0.0100	0.3960	0.0000	1,255.4569	1,255.4569	0.0878	0.0633	1,276.5148
Waste						0.0000	0.0000		0.0000	0.0000	30.5177	0.0000	30.5177	1.8035	0.0000	75.6062
Water						0.0000	0.0000		0.0000	0.0000	8.1524	26.8312	34.9836	0.0305	0.0180	41.1195
<b>Total</b>	<b>1.6805</b>	<b>1.0717</b>	<b>9.1452</b>	<b>0.0145</b>	<b>1.4439</b>	<b>0.0356</b>	<b>1.4795</b>	<b>0.3860</b>	<b>0.0349</b>	<b>0.4209</b>	<b>38.6701</b>	<b>1,714.6706</b>	<b>1,753.3407</b>	<b>1.9543</b>	<b>0.0872</b>	<b>1,828.1834</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>

**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	10/2/2024	10/23/2024	5	16	
2	Site Preparation	Site Preparation	10/24/2024	11/4/2024	5	8	
3	Grading	Grading	11/5/2024	11/27/2024	5	17	

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4	Building Construction	Building Construction	11/27/2024	6/30/2025	5	154
5	Paving	Paving	7/1/2025	7/18/2025	5	14
6	Architectural Coating	Architectural Coating	7/21/2025	8/6/2025	5	14

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 1.14**

**Residential Indoor: 311,850; Residential Outdoor: 103,950; Non-Residential Indoor: 57,000; Non-Residential Outdoor: 19,000; Striped Parking Area: 2,280 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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Architectural Coating	Air Compressors	1	6.00	78	0.48
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	120.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	255.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	208.00	39.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 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	0.0180	0.1670	0.1577	3.1000e-004		7.6800e-003	7.6800e-003		7.1400e-003	7.1400e-003	0.0000	27.1968	27.1968	7.6100e-003	0.0000	27.3871
<b>Total</b>	<b>0.0180</b>	<b>0.1670</b>	<b>0.1577</b>	<b>3.1000e-004</b>		<b>7.6800e-003</b>	<b>7.6800e-003</b>		<b>7.1400e-003</b>	<b>7.1400e-003</b>	<b>0.0000</b>	<b>27.1968</b>	<b>27.1968</b>	<b>7.6100e-003</b>	<b>0.0000</b>	<b>27.3871</b>

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**3.2 Demolition - 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	3.1000e-004	0.0186	3.8500e-003	7.0000e-005	2.0300e-003	1.4000e-004	2.1700e-003	5.6000e-004	1.3000e-004	6.9000e-004	0.0000	7.3123	7.3123	2.9000e-004	1.1600e-003	7.6651
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	3.2000e-004	1.9000e-004	2.6000e-003	1.0000e-005	8.8000e-004	0.0000	8.9000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6894	0.6894	2.0000e-005	2.0000e-005	0.6955
<b>Total</b>	<b>6.3000e-004</b>	<b>0.0188</b>	<b>6.4500e-003</b>	<b>8.0000e-005</b>	<b>2.9100e-003</b>	<b>1.4000e-004</b>	<b>3.0600e-003</b>	<b>7.9000e-004</b>	<b>1.3000e-004</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>8.0017</b>	<b>8.0017</b>	<b>3.1000e-004</b>	<b>1.1800e-003</b>	<b>8.3606</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	3.7000e-003	0.0160	0.1862	3.1000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	27.1968	27.1968	7.6100e-003	0.0000	27.3870
<b>Total</b>	<b>3.7000e-003</b>	<b>0.0160</b>	<b>0.1862</b>	<b>3.1000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>27.1968</b>	<b>27.1968</b>	<b>7.6100e-003</b>	<b>0.0000</b>	<b>27.3870</b>

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**3.2 Demolition - 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	3.1000e-004	0.0186	3.8500e-003	7.0000e-005	2.0300e-003	1.4000e-004	2.1700e-003	5.6000e-004	1.3000e-004	6.9000e-004	0.0000	7.3123	7.3123	2.9000e-004	1.1600e-003	7.6651
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	3.2000e-004	1.9000e-004	2.6000e-003	1.0000e-005	8.8000e-004	0.0000	8.9000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6894	0.6894	2.0000e-005	2.0000e-005	0.6955
<b>Total</b>	<b>6.3000e-004</b>	<b>0.0188</b>	<b>6.4500e-003</b>	<b>8.0000e-005</b>	<b>2.9100e-003</b>	<b>1.4000e-004</b>	<b>3.0600e-003</b>	<b>7.9000e-004</b>	<b>1.3000e-004</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>8.0017</b>	<b>8.0017</b>	<b>3.1000e-004</b>	<b>1.1800e-003</b>	<b>8.3606</b>

**3.3 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0786	0.0000	0.0786	0.0404	0.0000	0.0404	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0106	0.1087	0.0733	1.5000e-004		4.9200e-003	4.9200e-003		4.5200e-003	4.5200e-003	0.0000	13.3828	13.3828	4.3300e-003	0.0000	13.4910
<b>Total</b>	<b>0.0106</b>	<b>0.1087</b>	<b>0.0733</b>	<b>1.5000e-004</b>	<b>0.0786</b>	<b>4.9200e-003</b>	<b>0.0836</b>	<b>0.0404</b>	<b>4.5200e-003</b>	<b>0.0449</b>	<b>0.0000</b>	<b>13.3828</b>	<b>13.3828</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>13.4910</b>

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**3.3 Site Preparation - 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	1.6000e-004	9.3100e-003	1.9200e-003	4.0000e-005	1.0100e-003	7.0000e-005	1.0800e-003	2.8000e-004	7.0000e-005	3.4000e-004	0.0000	3.6562	3.6562	1.5000e-004	5.8000e-004	3.8326
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.1000e-004	1.5600e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4136	0.4136	1.0000e-005	1.0000e-005	0.4173
<b>Total</b>	<b>3.5000e-004</b>	<b>9.4200e-003</b>	<b>3.4800e-003</b>	<b>4.0000e-005</b>	<b>1.5400e-003</b>	<b>7.0000e-005</b>	<b>1.6100e-003</b>	<b>4.2000e-004</b>	<b>7.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.0698</b>	<b>4.0698</b>	<b>1.6000e-004</b>	<b>5.9000e-004</b>	<b>4.2499</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					0.0354	0.0000	0.0354	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8600e-003	8.0700e-003	0.0835	1.5000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	13.3828	13.3828	4.3300e-003	0.0000	13.4910
<b>Total</b>	<b>1.8600e-003</b>	<b>8.0700e-003</b>	<b>0.0835</b>	<b>1.5000e-004</b>	<b>0.0354</b>	<b>2.5000e-004</b>	<b>0.0356</b>	<b>0.0182</b>	<b>2.5000e-004</b>	<b>0.0184</b>	<b>0.0000</b>	<b>13.3828</b>	<b>13.3828</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>13.4910</b>

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**3.3 Site Preparation - 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	1.6000e-004	9.3100e-003	1.9200e-003	4.0000e-005	1.0100e-003	7.0000e-005	1.0800e-003	2.8000e-004	7.0000e-005	3.4000e-004	0.0000	3.6562	3.6562	1.5000e-004	5.8000e-004	3.8326
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.1000e-004	1.5600e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4136	0.4136	1.0000e-005	1.0000e-005	0.4173
<b>Total</b>	<b>3.5000e-004</b>	<b>9.4200e-003</b>	<b>3.4800e-003</b>	<b>4.0000e-005</b>	<b>1.5400e-003</b>	<b>7.0000e-005</b>	<b>1.6100e-003</b>	<b>4.2000e-004</b>	<b>7.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.0698</b>	<b>4.0698</b>	<b>1.6000e-004</b>	<b>5.9000e-004</b>	<b>4.2499</b>

**3.4 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0602	0.0000	0.0602	0.0291	0.0000	0.0291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0141	0.1448	0.1255	2.5000e-004		6.1600e-003	6.1600e-003		5.6600e-003	5.6600e-003	0.0000	22.1543	22.1543	7.1700e-003	0.0000	22.3335
<b>Total</b>	<b>0.0141</b>	<b>0.1448</b>	<b>0.1255</b>	<b>2.5000e-004</b>	<b>0.0602</b>	<b>6.1600e-003</b>	<b>0.0664</b>	<b>0.0291</b>	<b>5.6600e-003</b>	<b>0.0348</b>	<b>0.0000</b>	<b>22.1543</b>	<b>22.1543</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>22.3335</b>



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**3.4 Grading - 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	3.3000e-004	0.0198	4.0900e-003	8.0000e-005	2.1600e-003	1.5000e-004	2.3000e-003	5.9000e-004	1.4000e-004	7.3000e-004	0.0000	7.7694	7.7694	3.1000e-004	1.2300e-003	8.1442
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	3.4000e-004	2.0000e-004	2.7700e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7325	0.7325	2.0000e-005	2.0000e-005	0.7389
<b>Total</b>	<b>6.7000e-004</b>	<b>0.0200</b>	<b>6.8600e-003</b>	<b>9.0000e-005</b>	<b>3.1000e-003</b>	<b>1.5000e-004</b>	<b>3.2400e-003</b>	<b>8.4000e-004</b>	<b>1.4000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>8.5018</b>	<b>8.5018</b>	<b>3.3000e-004</b>	<b>1.2500e-003</b>	<b>8.8831</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					0.0271	0.0000	0.0271	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0900e-003	0.0134	0.1509	2.5000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	22.1543	22.1543	7.1700e-003	0.0000	22.3334
<b>Total</b>	<b>3.0900e-003</b>	<b>0.0134</b>	<b>0.1509</b>	<b>2.5000e-004</b>	<b>0.0271</b>	<b>4.1000e-004</b>	<b>0.0275</b>	<b>0.0131</b>	<b>4.1000e-004</b>	<b>0.0135</b>	<b>0.0000</b>	<b>22.1543</b>	<b>22.1543</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>22.3334</b>

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**3.4 Grading - 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	3.3000e-004	0.0198	4.0900e-003	8.0000e-005	2.1600e-003	1.5000e-004	2.3000e-003	5.9000e-004	1.4000e-004	7.3000e-004	0.0000	7.7694	7.7694	3.1000e-004	1.2300e-003	8.1442
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	3.4000e-004	2.0000e-004	2.7700e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7325	0.7325	2.0000e-005	2.0000e-005	0.7389
<b>Total</b>	<b>6.7000e-004</b>	<b>0.0200</b>	<b>6.8600e-003</b>	<b>9.0000e-005</b>	<b>3.1000e-003</b>	<b>1.5000e-004</b>	<b>3.2400e-003</b>	<b>8.4000e-004</b>	<b>1.4000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>8.5018</b>	<b>8.5018</b>	<b>3.3000e-004</b>	<b>1.2500e-003</b>	<b>8.8831</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	0.0184	0.1681	0.2021	3.4000e-004		7.6700e-003	7.6700e-003		7.2100e-003	7.2100e-003	0.0000	28.9811	28.9811	6.8500e-003	0.0000	29.1525
<b>Total</b>	<b>0.0184</b>	<b>0.1681</b>	<b>0.2021</b>	<b>3.4000e-004</b>		<b>7.6700e-003</b>	<b>7.6700e-003</b>		<b>7.2100e-003</b>	<b>7.2100e-003</b>	<b>0.0000</b>	<b>28.9811</b>	<b>28.9811</b>	<b>6.8500e-003</b>	<b>0.0000</b>	<b>29.1525</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1000e-004	0.0233	6.9400e-003	9.0000e-005	2.8500e-003	1.2000e-004	2.9800e-003	8.2000e-004	1.2000e-004	9.4000e-004	0.0000	8.8699	8.8699	2.2000e-004	1.3000e-003	9.2640
Worker	6.9700e-003	4.1100e-003	0.0564	1.6000e-004	0.0191	1.0000e-004	0.0192	5.0800e-003	9.0000e-005	5.1700e-003	0.0000	14.9363	14.9363	4.4000e-004	4.1000e-004	15.0686
<b>Total</b>	<b>7.5800e-003</b>	<b>0.0274</b>	<b>0.0634</b>	<b>2.5000e-004</b>	<b>0.0220</b>	<b>2.2000e-004</b>	<b>0.0222</b>	<b>5.9000e-003</b>	<b>2.1000e-004</b>	<b>6.1100e-003</b>	<b>0.0000</b>	<b>23.8062</b>	<b>23.8062</b>	<b>6.6000e-004</b>	<b>1.7100e-003</b>	<b>24.3327</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	4.1000e-003	0.0279	0.2183	3.4000e-004		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	28.9811	28.9811	6.8500e-003	0.0000	29.1524
<b>Total</b>	<b>4.1000e-003</b>	<b>0.0279</b>	<b>0.2183</b>	<b>3.4000e-004</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>28.9811</b>	<b>28.9811</b>	<b>6.8500e-003</b>	<b>0.0000</b>	<b>29.1524</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1000e-004	0.0233	6.9400e-003	9.0000e-005	2.8500e-003	1.2000e-004	2.9800e-003	8.2000e-004	1.2000e-004	9.4000e-004	0.0000	8.8699	8.8699	2.2000e-004	1.3000e-003	9.2640
Worker	6.9700e-003	4.1100e-003	0.0564	1.6000e-004	0.0191	1.0000e-004	0.0192	5.0800e-003	9.0000e-005	5.1700e-003	0.0000	14.9363	14.9363	4.4000e-004	4.1000e-004	15.0686
<b>Total</b>	<b>7.5800e-003</b>	<b>0.0274</b>	<b>0.0634</b>	<b>2.5000e-004</b>	<b>0.0220</b>	<b>2.2000e-004</b>	<b>0.0222</b>	<b>5.9000e-003</b>	<b>2.1000e-004</b>	<b>6.1100e-003</b>	<b>0.0000</b>	<b>23.8062</b>	<b>23.8062</b>	<b>6.6000e-004</b>	<b>1.7100e-003</b>	<b>24.3327</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	0.0882	0.8043	1.0375	1.7400e-003		0.0340	0.0340		0.0320	0.0320	0.0000	149.5881	149.5881	0.0352	0.0000	150.4671
<b>Total</b>	<b>0.0882</b>	<b>0.8043</b>	<b>1.0375</b>	<b>1.7400e-003</b>		<b>0.0340</b>	<b>0.0340</b>		<b>0.0320</b>	<b>0.0320</b>	<b>0.0000</b>	<b>149.5881</b>	<b>149.5881</b>	<b>0.0352</b>	<b>0.0000</b>	<b>150.4671</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	3.0200e-003	0.1178	0.0350	4.6000e-004	0.0147	6.3000e-004	0.0154	4.2600e-003	6.0000e-004	4.8600e-003	0.0000	44.8428	44.8428	1.0900e-003	6.6100e-003	46.8389
Worker	0.0338	0.0190	0.2723	8.0000e-004	0.0985	4.8000e-004	0.0990	0.0262	4.4000e-004	0.0267	0.0000	75.2075	75.2075	2.0600e-003	1.9600e-003	75.8442
<b>Total</b>	<b>0.0368</b>	<b>0.1368</b>	<b>0.3073</b>	<b>1.2600e-003</b>	<b>0.1133</b>	<b>1.1100e-003</b>	<b>0.1144</b>	<b>0.0305</b>	<b>1.0400e-003</b>	<b>0.0315</b>	<b>0.0000</b>	<b>120.0503</b>	<b>120.0503</b>	<b>3.1500e-003</b>	<b>8.5700e-003</b>	<b>122.6831</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	0.0211	0.1441	1.1262	1.7400e-003		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003	0.0000	149.5879	149.5879	0.0352	0.0000	150.4670
<b>Total</b>	<b>0.0211</b>	<b>0.1441</b>	<b>1.1262</b>	<b>1.7400e-003</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>149.5879</b>	<b>149.5879</b>	<b>0.0352</b>	<b>0.0000</b>	<b>150.4670</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	3.0200e-003	0.1178	0.0350	4.6000e-004	0.0147	6.3000e-004	0.0154	4.2600e-003	6.0000e-004	4.8600e-003	0.0000	44.8428	44.8428	1.0900e-003	6.6100e-003	46.8389
Worker	0.0338	0.0190	0.2723	8.0000e-004	0.0985	4.8000e-004	0.0990	0.0262	4.4000e-004	0.0267	0.0000	75.2075	75.2075	2.0600e-003	1.9600e-003	75.8442
<b>Total</b>	<b>0.0368</b>	<b>0.1368</b>	<b>0.3073</b>	<b>1.2600e-003</b>	<b>0.1133</b>	<b>1.1100e-003</b>	<b>0.1144</b>	<b>0.0305</b>	<b>1.0400e-003</b>	<b>0.0315</b>	<b>0.0000</b>	<b>120.0503</b>	<b>120.0503</b>	<b>3.1500e-003</b>	<b>8.5700e-003</b>	<b>122.6831</b>

**3.6 Paving - 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	6.4100e-003	0.0601	0.1021	1.6000e-004		2.9300e-003	2.9300e-003		2.7000e-003	2.7000e-003	0.0000	14.0135	14.0135	4.5300e-003	0.0000	14.1268
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>6.4100e-003</b>	<b>0.0601</b>	<b>0.1021</b>	<b>1.6000e-004</b>		<b>2.9300e-003</b>	<b>2.9300e-003</b>		<b>2.7000e-003</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>14.0135</b>	<b>14.0135</b>	<b>4.5300e-003</b>	<b>0.0000</b>	<b>14.1268</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	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	2.6000e-004	1.5000e-004	2.1300e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.5886	0.5886	2.0000e-005	2.0000e-005	0.5936
<b>Total</b>	<b>2.6000e-004</b>	<b>1.5000e-004</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>7.7000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.5886</b>	<b>0.5886</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5936</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	1.9600e-003	8.5100e-003	0.1211	1.6000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	14.0135	14.0135	4.5300e-003	0.0000	14.1268
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>1.9600e-003</b>	<b>8.5100e-003</b>	<b>0.1211</b>	<b>1.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>14.0135</b>	<b>14.0135</b>	<b>4.5300e-003</b>	<b>0.0000</b>	<b>14.1268</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	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	2.6000e-004	1.5000e-004	2.1300e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.5886	0.5886	2.0000e-005	2.0000e-005	0.5936
<b>Total</b>	<b>2.6000e-004</b>	<b>1.5000e-004</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>7.7000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.5886</b>	<b>0.5886</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5936</b>

**3.7 Architectural Coating - 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					
Archit. Coating	1.0632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619
<b>Total</b>	<b>1.0644</b>	<b>7.4500e-003</b>	<b>0.0118</b>	<b>2.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.6596</b>	<b>1.6596</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.6619</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	6.9000e-004	3.9000e-004	5.5400e-003	2.0000e-005	2.0100e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5304	1.5304	4.0000e-005	4.0000e-005	1.5433
<b>Total</b>	<b>6.9000e-004</b>	<b>3.9000e-004</b>	<b>5.5400e-003</b>	<b>2.0000e-005</b>	<b>2.0100e-003</b>	<b>1.0000e-005</b>	<b>2.0100e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.5304</b>	<b>1.5304</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.5433</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	1.0632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	8.4000e-004	0.0119	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619
<b>Total</b>	<b>1.0634</b>	<b>8.4000e-004</b>	<b>0.0119</b>	<b>2.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.6596</b>	<b>1.6596</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.6619</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	6.9000e-004	3.9000e-004	5.5400e-003	2.0000e-005	2.0100e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5304	1.5304	4.0000e-005	4.0000e-005	1.5433
<b>Total</b>	<b>6.9000e-004</b>	<b>3.9000e-004</b>	<b>5.5400e-003</b>	<b>2.0000e-005</b>	<b>2.0100e-003</b>	<b>1.0000e-005</b>	<b>2.0100e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.5304</b>	<b>1.5304</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.5433</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Innovation Park CNU Phase 2D - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2D**

**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Day-Care Center	15.00	1000sqft	0.34	15,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2027
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics - Daycare construction only
- Land Use - daycare part 1
- Construction Phase - schedule adjusted
- Trips and VMT - 15 trips / day for site prep, grade, demo
- Grading -
- Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMP

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	34.00
tblConstructionPhase	NumDays	1.00	3.00
tblConstructionPhase	NumDays	2.00	4.00
tblConstructionPhase	NumDays	100.00	55.00
tblConstructionPhase	NumDays	5.00	3.00
tblConstructionPhase	NumDays	5.00	3.00
tblTripsAndVMT	HaulingTripNumber	0.00	510.00
tblTripsAndVMT	HaulingTripNumber	0.00	45.00
tblTripsAndVMT	HaulingTripNumber	0.00	60.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 2D - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	8.2900e-003	0.0959	0.1047	2.8000e-004	4.2500e-003	2.9600e-003	7.2100e-003	1.1600e-003	2.8200e-003	3.9800e-003	0.0000	25.9144	25.9144	2.9100e-003	1.8600e-003	26.5428
2026	0.0914	0.2243	0.2618	5.2000e-004	0.0155	8.9700e-003	0.0245	6.3400e-003	8.3000e-003	0.0146	0.0000	46.2403	46.2403	0.0116	1.2200e-003	46.8946
<b>Maximum</b>	<b>0.0914</b>	<b>0.2243</b>	<b>0.2618</b>	<b>5.2000e-004</b>	<b>0.0155</b>	<b>8.9700e-003</b>	<b>0.0245</b>	<b>6.3400e-003</b>	<b>8.3000e-003</b>	<b>0.0146</b>	<b>0.0000</b>	<b>46.2403</b>	<b>46.2403</b>	<b>0.0116</b>	<b>1.8600e-003</b>	<b>46.8946</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	tons/yr										MT/yr					
2025	2.5500e-003	0.0371	0.1110	2.8000e-004	4.2500e-003	4.5000e-004	4.7000e-003	1.1600e-003	4.4000e-004	1.6000e-003	0.0000	25.9144	25.9144	2.9100e-003	1.8600e-003	26.5427
2026	0.0756	0.0415	0.2886	5.2000e-004	9.2500e-003	8.3000e-004	0.0101	3.4700e-003	8.2000e-004	4.2900e-003	0.0000	46.2402	46.2402	0.0116	1.2200e-003	46.8945
<b>Maximum</b>	<b>0.0756</b>	<b>0.0415</b>	<b>0.2886</b>	<b>5.2000e-004</b>	<b>9.2500e-003</b>	<b>8.3000e-004</b>	<b>0.0101</b>	<b>3.4700e-003</b>	<b>8.2000e-004</b>	<b>4.2900e-003</b>	<b>0.0000</b>	<b>46.2402</b>	<b>46.2402</b>	<b>0.0116</b>	<b>1.8600e-003</b>	<b>46.8945</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	21.59	75.45	-9.03	0.00	31.75	89.27	53.39	38.27	88.67	68.37	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-26-2025	2-25-2026	0.2507	0.0740
2	2-26-2026	5-25-2026	0.1471	0.0632
		Highest	0.2507	0.0740

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0656	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.7000e-004	3.7000e-004	0.0000	0.0000	4.0000e-004
Energy	1.2200e-003	0.0111	9.3400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	29.3961	29.3961	1.8300e-003	4.2000e-004	29.5654
Mobile	0.1623	0.1417	1.0503	1.6400e-003	0.1764	1.4100e-003	0.1779	0.0472	1.3200e-003	0.0485	0.0000	151.9755	151.9755	0.0160	0.0103	155.4409
Waste						0.0000	0.0000		0.0000	0.0000	3.9583	0.0000	3.9583	0.2339	0.0000	9.8066
Water						0.0000	0.0000		0.0000	0.0000	0.2276	1.4607	1.6883	9.2000e-004	5.1000e-004	1.8636
<b>Total</b>	<b>0.2291</b>	<b>0.1528</b>	<b>1.0598</b>	<b>1.7100e-003</b>	<b>0.1764</b>	<b>2.2500e-003</b>	<b>0.1787</b>	<b>0.0472</b>	<b>2.1600e-003</b>	<b>0.0493</b>	<b>4.1859</b>	<b>182.8327</b>	<b>187.0186</b>	<b>0.2527</b>	<b>0.0112</b>	<b>196.6769</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0656	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.7000e-004	3.7000e-004	0.0000	0.0000	4.0000e-004
Energy	1.2200e-003	0.0111	9.3400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	29.3961	29.3961	1.8300e-003	4.2000e-004	29.5654
Mobile	0.1623	0.1417	1.0503	1.6400e-003	0.1764	1.4100e-003	0.1779	0.0472	1.3200e-003	0.0485	0.0000	151.9755	151.9755	0.0160	0.0103	155.4409
Waste						0.0000	0.0000		0.0000	0.0000	3.9583	0.0000	3.9583	0.2339	0.0000	9.8066
Water						0.0000	0.0000		0.0000	0.0000	0.2276	1.4607	1.6883	9.2000e-004	5.1000e-004	1.8636
<b>Total</b>	<b>0.2291</b>	<b>0.1528</b>	<b>1.0598</b>	<b>1.7100e-003</b>	<b>0.1764</b>	<b>2.2500e-003</b>	<b>0.1787</b>	<b>0.0472</b>	<b>2.1600e-003</b>	<b>0.0493</b>	<b>4.1859</b>	<b>182.8327</b>	<b>187.0186</b>	<b>0.2527</b>	<b>0.0112</b>	<b>196.6769</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>

**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	11/26/2025	1/12/2026	5	34	
2	Site Preparation	Site Preparation	1/13/2026	1/15/2026	5	3	
3	Grading	Grading	1/16/2026	1/21/2026	5	4	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Building Construction	Building Construction	1/21/2026	4/7/2026	5	55
5	Paving	Paving	4/8/2026	4/10/2026	5	3
6	Architectural Coating	Architectural Coating	4/13/2026	4/15/2026	5	3

**Acres of Grading (Site Preparation Phase): 1.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	510.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	45.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	60.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	6.00	2.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 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	7.4700e-003	0.0663	0.0957	1.6000e-004		2.7300e-003	2.7300e-003		2.6100e-003	2.6100e-003	0.0000	13.5520	13.5520	2.4300e-003	0.0000	13.6128
<b>Total</b>	<b>7.4700e-003</b>	<b>0.0663</b>	<b>0.0957</b>	<b>1.6000e-004</b>		<b>2.7300e-003</b>	<b>2.7300e-003</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>	<b>0.0000</b>	<b>13.5520</b>	<b>13.5520</b>	<b>2.4300e-003</b>	<b>0.0000</b>	<b>13.6128</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	4.9000e-004	0.0295	6.2800e-003	1.2000e-004	3.3000e-003	2.2000e-004	3.5200e-003	9.1000e-004	2.1000e-004	1.1200e-003	0.0000	11.6336	11.6336	4.6000e-004	1.8400e-003	12.1951
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	3.3000e-004	1.8000e-004	2.6400e-003	1.0000e-005	9.5000e-004	0.0000	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.7288	0.7288	2.0000e-005	2.0000e-005	0.7349
<b>Total</b>	<b>8.2000e-004</b>	<b>0.0296</b>	<b>8.9200e-003</b>	<b>1.3000e-004</b>	<b>4.2500e-003</b>	<b>2.2000e-004</b>	<b>4.4800e-003</b>	<b>1.1600e-003</b>	<b>2.1000e-004</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>12.3624</b>	<b>12.3624</b>	<b>4.8000e-004</b>	<b>1.8600e-003</b>	<b>12.9300</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	1.7200e-003	7.4700e-003	0.1021	1.6000e-004		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	13.5520	13.5520	2.4300e-003	0.0000	13.6128
<b>Total</b>	<b>1.7200e-003</b>	<b>7.4700e-003</b>	<b>0.1021</b>	<b>1.6000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>13.5520</b>	<b>13.5520</b>	<b>2.4300e-003</b>	<b>0.0000</b>	<b>13.6128</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	4.9000e-004	0.0295	6.2800e-003	1.2000e-004	3.3000e-003	2.2000e-004	3.5200e-003	9.1000e-004	2.1000e-004	1.1200e-003	0.0000	11.6336	11.6336	4.6000e-004	1.8400e-003	12.1951
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	3.3000e-004	1.8000e-004	2.6400e-003	1.0000e-005	9.5000e-004	0.0000	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.7288	0.7288	2.0000e-005	2.0000e-005	0.7349
<b>Total</b>	<b>8.2000e-004</b>	<b>0.0296</b>	<b>8.9200e-003</b>	<b>1.3000e-004</b>	<b>4.2500e-003</b>	<b>2.2000e-004</b>	<b>4.4800e-003</b>	<b>1.1600e-003</b>	<b>2.1000e-004</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>12.3624</b>	<b>12.3624</b>	<b>4.8000e-004</b>	<b>1.8600e-003</b>	<b>12.9300</b>

**3.2 Demolition - 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	2.3000e-003	0.0204	0.0295	5.0000e-005		8.4000e-004	8.4000e-004		8.0000e-004	8.0000e-004	0.0000	4.1699	4.1699	7.5000e-004	0.0000	4.1886
<b>Total</b>	<b>2.3000e-003</b>	<b>0.0204</b>	<b>0.0295</b>	<b>5.0000e-005</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>4.1699</b>	<b>4.1699</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>4.1886</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	1.5000e-004	8.8100e-003	1.9300e-003	4.0000e-005	1.0100e-003	7.0000e-005	1.0800e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	3.5042	3.5042	1.4000e-004	5.6000e-004	3.6734
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	1.0000e-004	5.0000e-005	7.6000e-004	0.0000	2.9000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2189	0.2189	1.0000e-005	1.0000e-005	0.2207
<b>Total</b>	<b>2.5000e-004</b>	<b>8.8600e-003</b>	<b>2.6900e-003</b>	<b>4.0000e-005</b>	<b>1.3000e-003</b>	<b>7.0000e-005</b>	<b>1.3800e-003</b>	<b>3.6000e-004</b>	<b>6.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>3.7231</b>	<b>3.7231</b>	<b>1.5000e-004</b>	<b>5.7000e-004</b>	<b>3.8941</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	5.3000e-004	2.3000e-003	0.0314	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.1699	4.1699	7.5000e-004	0.0000	4.1885
<b>Total</b>	<b>5.3000e-004</b>	<b>2.3000e-003</b>	<b>0.0314</b>	<b>5.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>4.1699</b>	<b>4.1699</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>4.1885</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	1.5000e-004	8.8100e-003	1.9300e-003	4.0000e-005	1.0100e-003	7.0000e-005	1.0800e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	3.5042	3.5042	1.4000e-004	5.6000e-004	3.6734
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	1.0000e-004	5.0000e-005	7.6000e-004	0.0000	2.9000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2189	0.2189	1.0000e-005	1.0000e-005	0.2207
<b>Total</b>	<b>2.5000e-004</b>	<b>8.8600e-003</b>	<b>2.6900e-003</b>	<b>4.0000e-005</b>	<b>1.3000e-003</b>	<b>7.0000e-005</b>	<b>1.3800e-003</b>	<b>3.6000e-004</b>	<b>6.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>3.7231</b>	<b>3.7231</b>	<b>1.5000e-004</b>	<b>5.7000e-004</b>	<b>3.8941</b>

**3.3 Site Preparation - 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					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-004	7.1900e-003	5.7400e-003	1.0000e-005		2.5000e-004	2.5000e-004		2.3000e-004	2.3000e-004	0.0000	1.2823	1.2823	4.1000e-004	0.0000	1.2926
<b>Total</b>	<b>6.6000e-004</b>	<b>7.1900e-003</b>	<b>5.7400e-003</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>2.5000e-004</b>	<b>1.0500e-003</b>	<b>9.0000e-005</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.2823</b>	<b>1.2823</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2926</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	6.0000e-005	3.3100e-003	7.3000e-004	1.0000e-005	3.8000e-004	2.0000e-005	4.0000e-004	1.0000e-004	2.0000e-005	1.3000e-004	0.0000	1.3141	1.3141	5.0000e-005	2.1000e-004	1.3775
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	2.0000e-005	1.0000e-005	1.4000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0411	0.0411	0.0000	0.0000	0.0414
<b>Total</b>	<b>8.0000e-005</b>	<b>3.3200e-003</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>2.0000e-005</b>	<b>4.6000e-004</b>	<b>1.1000e-004</b>	<b>2.0000e-005</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.3551</b>	<b>1.3551</b>	<b>5.0000e-005</b>	<b>2.1000e-004</b>	<b>1.4189</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					3.6000e-004	0.0000	3.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	7.7000e-004	7.9800e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2823	1.2823	4.1000e-004	0.0000	1.2926
<b>Total</b>	<b>1.8000e-004</b>	<b>7.7000e-004</b>	<b>7.9800e-003</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>2.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0000e-005</b>	<b>2.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.2823</b>	<b>1.2823</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2926</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	6.0000e-005	3.3100e-003	7.3000e-004	1.0000e-005	3.8000e-004	2.0000e-005	4.0000e-004	1.0000e-004	2.0000e-005	1.3000e-004	0.0000	1.3141	1.3141	5.0000e-005	2.1000e-004	1.3775
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	2.0000e-005	1.0000e-005	1.4000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0411	0.0411	0.0000	0.0000	0.0414
<b>Total</b>	<b>8.0000e-005</b>	<b>3.3200e-003</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>2.0000e-005</b>	<b>4.6000e-004</b>	<b>1.1000e-004</b>	<b>2.0000e-005</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.3551</b>	<b>1.3551</b>	<b>5.0000e-005</b>	<b>2.1000e-004</b>	<b>1.4189</b>

**3.4 Grading - 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					
Fugitive Dust					0.0106	0.0000	0.0106	5.1400e-003	0.0000	5.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6700e-003	0.0175	0.0108	3.0000e-005		7.0000e-004	7.0000e-004		6.4000e-004	6.4000e-004	0.0000	2.4761	2.4761	8.0000e-004	0.0000	2.4961
<b>Total</b>	<b>1.6700e-003</b>	<b>0.0175</b>	<b>0.0108</b>	<b>3.0000e-005</b>	<b>0.0106</b>	<b>7.0000e-004</b>	<b>0.0113</b>	<b>5.1400e-003</b>	<b>6.4000e-004</b>	<b>5.7800e-003</b>	<b>0.0000</b>	<b>2.4761</b>	<b>2.4761</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.4961</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	7.0000e-005	4.4100e-003	9.7000e-004	2.0000e-005	5.1000e-004	3.0000e-005	5.4000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	1.7521	1.7521	7.0000e-005	2.8000e-004	1.8367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	3.1000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0876	0.0876	0.0000	0.0000	0.0883
<b>Total</b>	<b>1.1000e-004</b>	<b>4.4300e-003</b>	<b>1.2800e-003</b>	<b>2.0000e-005</b>	<b>6.3000e-004</b>	<b>3.0000e-005</b>	<b>6.6000e-004</b>	<b>1.7000e-004</b>	<b>3.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.8397</b>	<b>1.8397</b>	<b>7.0000e-005</b>	<b>2.8000e-004</b>	<b>1.9250</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					4.7800e-003	0.0000	4.7800e-003	2.3100e-003	0.0000	2.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	1.4900e-003	0.0143	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.4761	2.4761	8.0000e-004	0.0000	2.4961
<b>Total</b>	<b>3.4000e-004</b>	<b>1.4900e-003</b>	<b>0.0143</b>	<b>3.0000e-005</b>	<b>4.7800e-003</b>	<b>5.0000e-005</b>	<b>4.8300e-003</b>	<b>2.3100e-003</b>	<b>5.0000e-005</b>	<b>2.3600e-003</b>	<b>0.0000</b>	<b>2.4761</b>	<b>2.4761</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.4961</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	7.0000e-005	4.4100e-003	9.7000e-004	2.0000e-005	5.1000e-004	3.0000e-005	5.4000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	1.7521	1.7521	7.0000e-005	2.8000e-004	1.8367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	3.1000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0876	0.0876	0.0000	0.0000	0.0883
<b>Total</b>	<b>1.1000e-004</b>	<b>4.4300e-003</b>	<b>1.2800e-003</b>	<b>2.0000e-005</b>	<b>6.3000e-004</b>	<b>3.0000e-005</b>	<b>6.6000e-004</b>	<b>1.7000e-004</b>	<b>3.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.8397</b>	<b>1.8397</b>	<b>7.0000e-005</b>	<b>2.8000e-004</b>	<b>1.9250</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	0.0152	0.1508	0.1933	3.1000e-004		6.6300e-003	6.6300e-003		6.1000e-003	6.1000e-003	0.0000	27.5813	27.5813	8.9200e-003	0.0000	27.8043
<b>Total</b>	<b>0.0152</b>	<b>0.1508</b>	<b>0.1933</b>	<b>3.1000e-004</b>		<b>6.6300e-003</b>	<b>6.6300e-003</b>		<b>6.1000e-003</b>	<b>6.1000e-003</b>	<b>0.0000</b>	<b>27.5813</b>	<b>27.5813</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>27.8043</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	6.0000e-005	2.5200e-003	7.5000e-004	1.0000e-005	3.2000e-004	1.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.1000e-004	0.0000	0.9607	0.9607	2.0000e-005	1.4000e-004	1.0036
Worker	3.9000e-004	2.1000e-004	3.1500e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9030	0.9030	2.0000e-005	2.0000e-005	0.9104
<b>Total</b>	<b>4.5000e-004</b>	<b>2.7300e-003</b>	<b>3.9000e-003</b>	<b>2.0000e-005</b>	<b>1.5300e-003</b>	<b>2.0000e-005</b>	<b>1.5600e-003</b>	<b>4.1000e-004</b>	<b>2.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.8637</b>	<b>1.8637</b>	<b>4.0000e-005</b>	<b>1.6000e-004</b>	<b>1.9139</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	3.8400e-003	0.0166	0.2125	3.1000e-004		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	27.5813	27.5813	8.9200e-003	0.0000	27.8043
<b>Total</b>	<b>3.8400e-003</b>	<b>0.0166</b>	<b>0.2125</b>	<b>3.1000e-004</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>27.5813</b>	<b>27.5813</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>27.8043</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	6.0000e-005	2.5200e-003	7.5000e-004	1.0000e-005	3.2000e-004	1.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.1000e-004	0.0000	0.9607	0.9607	2.0000e-005	1.4000e-004	1.0036
Worker	3.9000e-004	2.1000e-004	3.1500e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9030	0.9030	2.0000e-005	2.0000e-005	0.9104
<b>Total</b>	<b>4.5000e-004</b>	<b>2.7300e-003</b>	<b>3.9000e-003</b>	<b>2.0000e-005</b>	<b>1.5300e-003</b>	<b>2.0000e-005</b>	<b>1.5600e-003</b>	<b>4.1000e-004</b>	<b>2.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.8637</b>	<b>1.8637</b>	<b>4.0000e-005</b>	<b>1.6000e-004</b>	<b>1.9139</b>

**3.6 Paving - 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	8.5000e-004	7.3800e-003	0.0105	2.0000e-005		3.3000e-004	3.3000e-004		3.1000e-004	3.1000e-004	0.0000	1.4101	1.4101	4.1000e-004	0.0000	1.4204
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>8.5000e-004</b>	<b>7.3800e-003</b>	<b>0.0105</b>	<b>2.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.4101</b>	<b>1.4101</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.4204</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	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	6.0000e-005	3.0000e-005	5.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1478	0.1478	0.0000	0.0000	0.1490
<b>Total</b>	<b>6.0000e-005</b>	<b>3.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1478</b>	<b>0.1478</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1490</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	1.7000e-004	7.3000e-004	0.0104	2.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.4101	1.4101	4.1000e-004	0.0000	1.4204
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>1.7000e-004</b>	<b>7.3000e-004</b>	<b>0.0104</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.4101</b>	<b>1.4101</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.4204</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	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	6.0000e-005	3.0000e-005	5.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1478	0.1478	0.0000	0.0000	0.1490
<b>Total</b>	<b>6.0000e-005</b>	<b>3.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1478</b>	<b>0.1478</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1490</b>

**3.7 Architectural Coating - 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					
Archit. Coating	0.0695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6000e-004	1.7200e-003	2.7100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.3830	0.3830	2.0000e-005	0.0000	0.3835
<b>Total</b>	<b>0.0698</b>	<b>1.7200e-003</b>	<b>2.7100e-003</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3830</b>	<b>0.3830</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3835</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	8.2100e-003	8.2100e-003	0.0000	0.0000	8.2800e-003
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.2800e-003</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	0.0695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-005	1.9000e-004	2.7500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.3830	0.3830	2.0000e-005	0.0000	0.3835
<b>Total</b>	<b>0.0696</b>	<b>1.9000e-004</b>	<b>2.7500e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3830</b>	<b>0.3830</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3835</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	8.2100e-003	8.2100e-003	0.0000	0.0000	8.2800e-003
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.2800e-003</b>

Innovation Park CNU Phase 2E - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2E**

**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	166.80	1000sqft	3.83	166,800.00	0
Enclosed Parking Structure	83.00	Space	0.75	33,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2028
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - pharm bldg 2  
 Land Use - Pharm BLDG 2  
 Construction Phase - Schedule adjusted  
 Trips and VMT - 15 truck/day  
 Grading -  
 Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMP

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	NumDays	8.00	11.00
tblConstructionPhase	NumDays	230.00	312.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	18.00	24.00
tblConstructionPhase	NumDays	18.00	24.00
tblTripsAndVMT	HaulingTripNumber	0.00	360.00
tblTripsAndVMT	HaulingTripNumber	0.00	90.00
tblTripsAndVMT	HaulingTripNumber	0.00	165.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.1877	1.7467	2.0410	4.3500e-003	0.1695	0.0675	0.2370	0.0686	0.0633	0.1319	0.0000	387.5223	387.5223	0.0731	0.0114	392.7597
2028	0.9196	0.9803	1.2805	2.5500e-003	0.0458	0.0385	0.0842	0.0125	0.0362	0.0486	0.0000	226.3773	226.3773	0.0418	5.6900e-003	229.1175
<b>Maximum</b>	<b>0.9196</b>	<b>1.7467</b>	<b>2.0410</b>	<b>4.3500e-003</b>	<b>0.1695</b>	<b>0.0675</b>	<b>0.2370</b>	<b>0.0686</b>	<b>0.0633</b>	<b>0.1319</b>	<b>0.0000</b>	<b>387.5223</b>	<b>387.5223</b>	<b>0.0731</b>	<b>0.0114</b>	<b>392.7597</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	tons/yr										MT/yr					
2027	0.0586	0.4382	2.2425	4.3500e-003	0.1157	6.2800e-003	0.1219	0.0416	6.2200e-003	0.0478	0.0000	387.5219	387.5219	0.0731	0.0114	392.7593
2028	0.8456	0.2489	1.3830	2.5500e-003	0.0458	3.5700e-003	0.0494	0.0125	3.5400e-003	0.0160	0.0000	226.3771	226.3771	0.0418	5.6900e-003	229.1173
<b>Maximum</b>	<b>0.8456</b>	<b>0.4382</b>	<b>2.2425</b>	<b>4.3500e-003</b>	<b>0.1157</b>	<b>6.2800e-003</b>	<b>0.1219</b>	<b>0.0416</b>	<b>6.2200e-003</b>	<b>0.0478</b>	<b>0.0000</b>	<b>387.5219</b>	<b>387.5219</b>	<b>0.0731</b>	<b>0.0114</b>	<b>392.7593</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	18.34	74.80	-9.15	0.00	25.02	90.71	46.69	33.32	90.18	64.64	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-18-2027	5-17-2027	0.6566	0.1432
2	5-18-2027	8-17-2027	0.5104	0.1399
3	8-18-2027	11-17-2027	0.5121	0.1417
4	11-18-2027	2-17-2028	0.5131	0.1426
5	2-18-2028	5-17-2028	0.4996	0.1372
6	5-18-2028	8-17-2028	0.7973	0.5575
7	8-18-2028	9-30-2028	0.3309	0.3251
		Highest	0.7973	0.5575

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7317	3.0000e-005	3.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2000e-003	6.2000e-003	2.0000e-005	0.0000	6.6000e-003
Energy	0.0602	0.5473	0.4598	3.2800e-003		0.0416	0.0416		0.0416	0.0416	0.0000	1,148.2256	1,148.2256	0.0623	0.0171	1,154.8787
Mobile	0.6565	0.7913	5.9837	0.0127	1.4792	9.4700e-003	1.4887	0.3953	8.8400e-003	0.4042	0.0000	1,223.3542	1,223.3542	0.0811	0.0586	1,242.8347
Waste						0.0000	0.0000		0.0000	0.0000	365.6760	0.0000	365.6760	21.6108	0.0000	905.9469
Water						0.0000	0.0000		0.0000	0.0000	7.4051	19.1995	26.6046	0.0273	0.0163	32.1489
<b>Total</b>	<b>1.4483</b>	<b>1.3386</b>	<b>6.4466</b>	<b>0.0159</b>	<b>1.4792</b>	<b>0.0511</b>	<b>1.5303</b>	<b>0.3953</b>	<b>0.0505</b>	<b>0.4458</b>	<b>373.0812</b>	<b>2,390.7854</b>	<b>2,763.8666</b>	<b>21.7815</b>	<b>0.0920</b>	<b>3,335.8158</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7317	3.0000e-005	3.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2000e-003	6.2000e-003	2.0000e-005	0.0000	6.6000e-003
Energy	0.0602	0.5473	0.4598	3.2800e-003		0.0416	0.0416		0.0416	0.0416	0.0000	1,148.2256	1,148.2256	0.0623	0.0171	1,154.8787
Mobile	0.6565	0.7913	5.9837	0.0127	1.4792	9.4700e-003	1.4887	0.3953	8.8400e-003	0.4042	0.0000	1,223.3542	1,223.3542	0.0811	0.0586	1,242.8347
Waste						0.0000	0.0000		0.0000	0.0000	365.6760	0.0000	365.6760	21.6108	0.0000	905.9469
Water						0.0000	0.0000		0.0000	0.0000	7.4051	19.1995	26.6046	0.0273	0.0163	32.1489
<b>Total</b>	<b>1.4483</b>	<b>1.3386</b>	<b>6.4466</b>	<b>0.0159</b>	<b>1.4792</b>	<b>0.0511</b>	<b>1.5303</b>	<b>0.3953</b>	<b>0.0505</b>	<b>0.4458</b>	<b>373.0812</b>	<b>2,390.7854</b>	<b>2,763.8666</b>	<b>21.7815</b>	<b>0.0920</b>	<b>3,335.8158</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>

**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	2/18/2027	3/23/2027	5	24	
2	Site Preparation	Site Preparation	3/24/2027	3/31/2027	5	6	
3	Grading	Grading	4/1/2027	4/15/2027	5	11	

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4	Building Construction	Building Construction	4/15/2027	6/23/2028	5	312
5	Paving	Paving	6/26/2028	7/27/2028	5	24
6	Architectural Coating	Architectural Coating	7/28/2028	8/31/2028	5	24

**Acres of Grading (Site Preparation Phase): 9**

**Acres of Grading (Grading Phase): 11**

**Acres of Paving: 0.75**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 250,200; Non-Residential Outdoor: 83,400; Striped Parking Area: 1,992 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	360.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	90.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	165.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	67.00	33.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	0.0251	0.2304	0.2330	4.7000e-004		0.0102	0.0102		9.5000e-003	9.5000e-003	0.0000	40.7972	40.7972	0.0114	0.0000	41.0820
<b>Total</b>	<b>0.0251</b>	<b>0.2304</b>	<b>0.2330</b>	<b>4.7000e-004</b>		<b>0.0102</b>	<b>0.0102</b>		<b>9.5000e-003</b>	<b>9.5000e-003</b>	<b>0.0000</b>	<b>40.7972</b>	<b>40.7972</b>	<b>0.0114</b>	<b>0.0000</b>	<b>41.0820</b>

**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	4.3000e-004	0.0258	5.8000e-003	1.0000e-004	3.0400e-003	1.9000e-004	3.2300e-003	8.4000e-004	1.8000e-004	1.0200e-003	0.0000	10.2747	10.2747	4.1000e-004	1.6300e-003	10.7706
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.1000e-004	3.2600e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	0.9630	0.9630	2.0000e-005	2.0000e-005	0.9706
<b>Total</b>	<b>8.3000e-004</b>	<b>0.0260</b>	<b>9.0600e-003</b>	<b>1.1000e-004</b>	<b>4.3600e-003</b>	<b>2.0000e-004</b>	<b>4.5600e-003</b>	<b>1.1900e-003</b>	<b>1.9000e-004</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>11.2377</b>	<b>11.2377</b>	<b>4.3000e-004</b>	<b>1.6500e-003</b>	<b>11.7412</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5500e-003	0.0240	0.2794	4.7000e-004		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	40.7971	40.7971	0.0114	0.0000	41.0819
<b>Total</b>	<b>5.5500e-003</b>	<b>0.0240</b>	<b>0.2794</b>	<b>4.7000e-004</b>		<b>7.4000e-004</b>	<b>7.4000e-004</b>		<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>40.7971</b>	<b>40.7971</b>	<b>0.0114</b>	<b>0.0000</b>	<b>41.0819</b>

**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	4.3000e-004	0.0258	5.8000e-003	1.0000e-004	3.0400e-003	1.9000e-004	3.2300e-003	8.4000e-004	1.8000e-004	1.0200e-003	0.0000	10.2747	10.2747	4.1000e-004	1.6300e-003	10.7706
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.1000e-004	3.2600e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	0.9630	0.9630	2.0000e-005	2.0000e-005	0.9706
<b>Total</b>	<b>8.3000e-004</b>	<b>0.0260</b>	<b>9.0600e-003</b>	<b>1.1000e-004</b>	<b>4.3600e-003</b>	<b>2.0000e-004</b>	<b>4.5600e-003</b>	<b>1.1900e-003</b>	<b>1.9000e-004</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>11.2377</b>	<b>11.2377</b>	<b>4.3000e-004</b>	<b>1.6500e-003</b>	<b>11.7412</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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					
Fugitive Dust					0.0590	0.0000	0.0590	0.0303	0.0000	0.0303	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4200e-003	0.0757	0.0537	1.1000e-004		3.2600e-003	3.2600e-003		3.0000e-003	3.0000e-003	0.0000	10.0401	10.0401	3.2500e-003	0.0000	10.1213
<b>Total</b>	<b>7.4200e-003</b>	<b>0.0757</b>	<b>0.0537</b>	<b>1.1000e-004</b>	<b>0.0590</b>	<b>3.2600e-003</b>	<b>0.0622</b>	<b>0.0303</b>	<b>3.0000e-003</b>	<b>0.0333</b>	<b>0.0000</b>	<b>10.0401</b>	<b>10.0401</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>10.1213</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	6.4400e-003	1.4500e-003	3.0000e-005	7.6000e-004	5.0000e-005	8.1000e-004	2.1000e-004	5.0000e-005	2.5000e-004	0.0000	2.5687	2.5687	1.0000e-004	4.1000e-004	2.6926
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	6.0000e-005	9.8000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2889	0.2889	1.0000e-005	1.0000e-005	0.2912
<b>Total</b>	<b>2.3000e-004</b>	<b>6.5000e-003</b>	<b>2.4300e-003</b>	<b>3.0000e-005</b>	<b>1.1600e-003</b>	<b>5.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>5.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>2.8576</b>	<b>2.8576</b>	<b>1.1000e-004</b>	<b>4.2000e-004</b>	<b>2.9838</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2027**

**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					0.0265	0.0000	0.0265	0.0136	0.0000	0.0136	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4000e-003	6.0500e-003	0.0626	1.1000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	10.0401	10.0401	3.2500e-003	0.0000	10.1213
<b>Total</b>	<b>1.4000e-003</b>	<b>6.0500e-003</b>	<b>0.0626</b>	<b>1.1000e-004</b>	<b>0.0265</b>	<b>1.9000e-004</b>	<b>0.0267</b>	<b>0.0136</b>	<b>1.9000e-004</b>	<b>0.0138</b>	<b>0.0000</b>	<b>10.0401</b>	<b>10.0401</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>10.1213</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	6.4400e-003	1.4500e-003	3.0000e-005	7.6000e-004	5.0000e-005	8.1000e-004	2.1000e-004	5.0000e-005	2.5000e-004	0.0000	2.5687	2.5687	1.0000e-004	4.1000e-004	2.6926
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	6.0000e-005	9.8000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2889	0.2889	1.0000e-005	1.0000e-005	0.2912
<b>Total</b>	<b>2.3000e-004</b>	<b>6.5000e-003</b>	<b>2.4300e-003</b>	<b>3.0000e-005</b>	<b>1.1600e-003</b>	<b>5.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>5.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>2.8576</b>	<b>2.8576</b>	<b>1.1000e-004</b>	<b>4.2000e-004</b>	<b>2.9838</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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					
Fugitive Dust					0.0390	0.0000	0.0390	0.0188	0.0000	0.0188	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3700e-003	0.0842	0.0800	1.6000e-004		3.4300e-003	3.4300e-003		3.1600e-003	3.1600e-003	0.0000	14.3384	14.3384	4.6400e-003	0.0000	14.4543
<b>Total</b>	<b>8.3700e-003</b>	<b>0.0842</b>	<b>0.0800</b>	<b>1.6000e-004</b>	<b>0.0390</b>	<b>3.4300e-003</b>	<b>0.0424</b>	<b>0.0188</b>	<b>3.1600e-003</b>	<b>0.0220</b>	<b>0.0000</b>	<b>14.3384</b>	<b>14.3384</b>	<b>4.6400e-003</b>	<b>0.0000</b>	<b>14.4543</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	0.0118	2.6600e-003	5.0000e-005	1.3900e-003	9.0000e-005	1.4800e-003	3.8000e-004	8.0000e-005	4.7000e-004	0.0000	4.7092	4.7092	1.9000e-004	7.5000e-004	4.9365
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.0000e-004	1.4900e-003	0.0000	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4414	0.4414	1.0000e-005	1.0000e-005	0.4449
<b>Total</b>	<b>3.9000e-004</b>	<b>0.0119</b>	<b>4.1500e-003</b>	<b>5.0000e-005</b>	<b>2.0000e-003</b>	<b>9.0000e-005</b>	<b>2.0900e-003</b>	<b>5.4000e-004</b>	<b>8.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>5.1506</b>	<b>5.1506</b>	<b>2.0000e-004</b>	<b>7.6000e-004</b>	<b>5.3814</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2027**

**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					0.0175	0.0000	0.0175	8.4800e-003	0.0000	8.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-003	8.6600e-003	0.0976	1.6000e-004		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	14.3384	14.3384	4.6400e-003	0.0000	14.4543
<b>Total</b>	<b>2.0000e-003</b>	<b>8.6600e-003</b>	<b>0.0976</b>	<b>1.6000e-004</b>	<b>0.0175</b>	<b>2.7000e-004</b>	<b>0.0178</b>	<b>8.4800e-003</b>	<b>2.7000e-004</b>	<b>8.7500e-003</b>	<b>0.0000</b>	<b>14.3384</b>	<b>14.3384</b>	<b>4.6400e-003</b>	<b>0.0000</b>	<b>14.4543</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	0.0118	2.6600e-003	5.0000e-005	1.3900e-003	9.0000e-005	1.4800e-003	3.8000e-004	8.0000e-005	4.7000e-004	0.0000	4.7092	4.7092	1.9000e-004	7.5000e-004	4.9365
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.0000e-004	1.4900e-003	0.0000	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4414	0.4414	1.0000e-005	1.0000e-005	0.4449
<b>Total</b>	<b>3.9000e-004</b>	<b>0.0119</b>	<b>4.1500e-003</b>	<b>5.0000e-005</b>	<b>2.0000e-003</b>	<b>9.0000e-005</b>	<b>2.0900e-003</b>	<b>5.4000e-004</b>	<b>8.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>5.1506</b>	<b>5.1506</b>	<b>2.0000e-004</b>	<b>7.6000e-004</b>	<b>5.3814</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.1279	1.1659	1.5039	2.5200e-003		0.0493	0.0493		0.0464	0.0464	0.0000	216.8447	216.8447	0.0510	0.0000	218.1190
<b>Total</b>	<b>0.1279</b>	<b>1.1659</b>	<b>1.5039</b>	<b>2.5200e-003</b>		<b>0.0493</b>	<b>0.0493</b>		<b>0.0464</b>	<b>0.0464</b>	<b>0.0000</b>	<b>216.8447</b>	<b>216.8447</b>	<b>0.0510</b>	<b>0.0000</b>	<b>218.1190</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4600e-003	0.1388	0.0413	5.4000e-004	0.0181	7.4000e-004	0.0188	5.2200e-003	7.0000e-004	5.9200e-003	0.0000	52.7417	52.7417	1.2800e-003	7.8000e-003	55.0980
Worker	0.0141	7.3500e-003	0.1134	3.5000e-004	0.0460	2.0000e-004	0.0462	0.0122	1.9000e-004	0.0124	0.0000	33.5144	33.5144	8.0000e-004	8.2000e-004	33.7787
<b>Total</b>	<b>0.0175</b>	<b>0.1462</b>	<b>0.1547</b>	<b>8.9000e-004</b>	<b>0.0641</b>	<b>9.4000e-004</b>	<b>0.0650</b>	<b>0.0175</b>	<b>8.9000e-004</b>	<b>0.0183</b>	<b>0.0000</b>	<b>86.2561</b>	<b>86.2561</b>	<b>2.0800e-003</b>	<b>8.6200e-003</b>	<b>88.8768</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2027**

**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	0.0307	0.2089	1.6325	2.5200e-003		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	216.8444	216.8444	0.0510	0.0000	218.1188
<b>Total</b>	<b>0.0307</b>	<b>0.2089</b>	<b>1.6325</b>	<b>2.5200e-003</b>		<b>3.8100e-003</b>	<b>3.8100e-003</b>		<b>3.8100e-003</b>	<b>3.8100e-003</b>	<b>0.0000</b>	<b>216.8444</b>	<b>216.8444</b>	<b>0.0510</b>	<b>0.0000</b>	<b>218.1188</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4600e-003	0.1388	0.0413	5.4000e-004	0.0181	7.4000e-004	0.0188	5.2200e-003	7.0000e-004	5.9200e-003	0.0000	52.7417	52.7417	1.2800e-003	7.8000e-003	55.0980
Worker	0.0141	7.3500e-003	0.1134	3.5000e-004	0.0460	2.0000e-004	0.0462	0.0122	1.9000e-004	0.0124	0.0000	33.5144	33.5144	8.0000e-004	8.2000e-004	33.7787
<b>Total</b>	<b>0.0175</b>	<b>0.1462</b>	<b>0.1547</b>	<b>8.9000e-004</b>	<b>0.0641</b>	<b>9.4000e-004</b>	<b>0.0650</b>	<b>0.0175</b>	<b>8.9000e-004</b>	<b>0.0183</b>	<b>0.0000</b>	<b>86.2561</b>	<b>86.2561</b>	<b>2.0800e-003</b>	<b>8.6200e-003</b>	<b>88.8768</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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					
Off-Road	0.0855	0.7794	1.0053	1.6900e-003		0.0330	0.0330		0.0310	0.0310	0.0000	144.9497	144.9497	0.0341	0.0000	145.8015
<b>Total</b>	<b>0.0855</b>	<b>0.7794</b>	<b>1.0053</b>	<b>1.6900e-003</b>		<b>0.0330</b>	<b>0.0330</b>		<b>0.0310</b>	<b>0.0310</b>	<b>0.0000</b>	<b>144.9497</b>	<b>144.9497</b>	<b>0.0341</b>	<b>0.0000</b>	<b>145.8015</b>

**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	2.2500e-003	0.0913	0.0272	3.5000e-004	0.0121	4.8000e-004	0.0126	3.4900e-003	4.6000e-004	3.9500e-003	0.0000	34.5312	34.5312	8.4000e-004	5.1100e-003	36.0764
Worker	8.8900e-003	4.5300e-003	0.0723	2.3000e-004	0.0308	1.3000e-004	0.0309	8.1800e-003	1.2000e-004	8.3000e-003	0.0000	21.9420	21.9420	5.0000e-004	5.2000e-004	22.1102
<b>Total</b>	<b>0.0111</b>	<b>0.0958</b>	<b>0.0995</b>	<b>5.8000e-004</b>	<b>0.0428</b>	<b>6.1000e-004</b>	<b>0.0434</b>	<b>0.0117</b>	<b>5.8000e-004</b>	<b>0.0123</b>	<b>0.0000</b>	<b>56.4732</b>	<b>56.4732</b>	<b>1.3400e-003</b>	<b>5.6300e-003</b>	<b>58.1866</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**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	0.0205	0.1397	1.0913	1.6900e-003		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	144.9495	144.9495	0.0341	0.0000	145.8013
<b>Total</b>	<b>0.0205</b>	<b>0.1397</b>	<b>1.0913</b>	<b>1.6900e-003</b>		<b>2.5500e-003</b>	<b>2.5500e-003</b>		<b>2.5500e-003</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>144.9495</b>	<b>144.9495</b>	<b>0.0341</b>	<b>0.0000</b>	<b>145.8013</b>

**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	2.2500e-003	0.0913	0.0272	3.5000e-004	0.0121	4.8000e-004	0.0126	3.4900e-003	4.6000e-004	3.9500e-003	0.0000	34.5312	34.5312	8.4000e-004	5.1100e-003	36.0764
Worker	8.8900e-003	4.5300e-003	0.0723	2.3000e-004	0.0308	1.3000e-004	0.0309	8.1800e-003	1.2000e-004	8.3000e-003	0.0000	21.9420	21.9420	5.0000e-004	5.2000e-004	22.1102
<b>Total</b>	<b>0.0111</b>	<b>0.0958</b>	<b>0.0995</b>	<b>5.8000e-004</b>	<b>0.0428</b>	<b>6.1000e-004</b>	<b>0.0434</b>	<b>0.0117</b>	<b>5.8000e-004</b>	<b>0.0123</b>	<b>0.0000</b>	<b>56.4732</b>	<b>56.4732</b>	<b>1.3400e-003</b>	<b>5.6300e-003</b>	<b>58.1866</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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					
Off-Road	9.8400e-003	0.0904	0.1461	2.3000e-004		4.2300e-003	4.2300e-003		3.9100e-003	3.9100e-003	0.0000	19.6539	19.6539	6.1800e-003	0.0000	19.8083
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>9.8400e-003</b>	<b>0.0904</b>	<b>0.1461</b>	<b>2.3000e-004</b>		<b>4.2300e-003</b>	<b>4.2300e-003</b>		<b>3.9100e-003</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>19.6539</b>	<b>19.6539</b>	<b>6.1800e-003</b>	<b>0.0000</b>	<b>19.8083</b>

**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	5.1000e-004	2.6000e-004	4.1400e-003	1.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.2576	1.2576	3.0000e-005	3.0000e-005	1.2672
<b>Total</b>	<b>5.1000e-004</b>	<b>2.6000e-004</b>	<b>4.1400e-003</b>	<b>1.0000e-005</b>	<b>1.7600e-003</b>	<b>1.0000e-005</b>	<b>1.7700e-003</b>	<b>4.7000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.2576</b>	<b>1.2576</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2672</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**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	2.6300e-003	0.0114	0.1624	2.3000e-004		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	19.6539	19.6539	6.1800e-003	0.0000	19.8083
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>2.6300e-003</b>	<b>0.0114</b>	<b>0.1624</b>	<b>2.3000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>19.6539</b>	<b>19.6539</b>	<b>6.1800e-003</b>	<b>0.0000</b>	<b>19.8083</b>

**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	5.1000e-004	2.6000e-004	4.1400e-003	1.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.2576	1.2576	3.0000e-005	3.0000e-005	1.2672
<b>Total</b>	<b>5.1000e-004</b>	<b>2.6000e-004</b>	<b>4.1400e-003</b>	<b>1.0000e-005</b>	<b>1.7600e-003</b>	<b>1.0000e-005</b>	<b>1.7700e-003</b>	<b>4.7000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.2576</b>	<b>1.2576</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2672</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.8101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1400e-003	0.0143	0.0226	4.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	3.1916	3.1916	1.7000e-004	0.0000	3.1959
<b>Total</b>	<b>0.8123</b>	<b>0.0143</b>	<b>0.0226</b>	<b>4.0000e-005</b>		<b>6.4000e-004</b>	<b>6.4000e-004</b>		<b>6.4000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>3.1916</b>	<b>3.1916</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>3.1959</b>

**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	3.4000e-004	1.8000e-004	2.8000e-003	1.0000e-005	1.1900e-003	0.0000	1.2000e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.8515	0.8515	2.0000e-005	2.0000e-005	0.8580
<b>Total</b>	<b>3.4000e-004</b>	<b>1.8000e-004</b>	<b>2.8000e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>1.2000e-003</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.8515</b>	<b>0.8515</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8580</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2028**

**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	0.8101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7000e-004	1.6100e-003	0.0229	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.1916	3.1916	1.7000e-004	0.0000	3.1959
<b>Total</b>	<b>0.8105</b>	<b>1.6100e-003</b>	<b>0.0229</b>	<b>4.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>3.1916</b>	<b>3.1916</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>3.1959</b>

**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	3.4000e-004	1.8000e-004	2.8000e-003	1.0000e-005	1.1900e-003	0.0000	1.2000e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.8515	0.8515	2.0000e-005	2.0000e-005	0.8580
<b>Total</b>	<b>3.4000e-004</b>	<b>1.8000e-004</b>	<b>2.8000e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>1.2000e-003</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.8515</b>	<b>0.8515</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8580</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4yr)	2,500.00	Student	10.55	216,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2029
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - University Bldg 2  
 Land Use - University Building 2  
 Construction Phase - Schedule adjusted  
 Trips and VMT - 10 truck/day for demo, site prep, grading  
 Grading -  
 Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMP

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	10.00	7.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	300.00	318.00
tblConstructionPhase	NumDays	20.00	21.00



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	20.00	21.00
tblLandUse	LandUseSquareFeet	459,493.67	216,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	130.00
tblTripsAndVMT	HaulingTripNumber	0.00	70.00
tblTripsAndVMT	HaulingTripNumber	0.00	210.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	0.2027	1.8492	2.1635	4.7000e-003	0.2529	0.0715	0.3244	0.0975	0.0669	0.1644	0.0000	419.2485	419.2485	0.0820	0.0110	424.5878
2029	1.1180	1.0322	1.3688	2.7700e-003	0.0602	0.0405	0.1006	0.0163	0.0380	0.0543	0.0000	247.3421	247.3421	0.0445	6.3900e-003	250.3588
<b>Maximum</b>	<b>1.1180</b>	<b>1.8492</b>	<b>2.1635</b>	<b>4.7000e-003</b>	<b>0.2529</b>	<b>0.0715</b>	<b>0.3244</b>	<b>0.0975</b>	<b>0.0669</b>	<b>0.1644</b>	<b>0.0000</b>	<b>419.2485</b>	<b>419.2485</b>	<b>0.0820</b>	<b>0.0110</b>	<b>424.5878</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	tons/yr										MT/yr					
2028	0.0659	0.4456	2.3969	4.7000e-003	0.1619	6.7300e-003	0.1687	0.0569	6.6600e-003	0.0636	0.0000	419.2481	419.2481	0.0820	0.0110	424.5875
2029	1.0412	0.2687	1.4883	2.7700e-003	0.0602	3.8400e-003	0.0640	0.0163	3.8000e-003	0.0201	0.0000	247.3419	247.3419	0.0445	6.3900e-003	250.3586
<b>Maximum</b>	<b>1.0412</b>	<b>0.4456</b>	<b>2.3969</b>	<b>4.7000e-003</b>	<b>0.1619</b>	<b>6.7300e-003</b>	<b>0.1687</b>	<b>0.0569</b>	<b>6.6600e-003</b>	<b>0.0636</b>	<b>0.0000</b>	<b>419.2481</b>	<b>419.2481</b>	<b>0.0820</b>	<b>0.0110</b>	<b>424.5875</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	16.17	75.21	-9.99	0.00	29.06	90.56	45.27	35.64	90.03	61.74	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-18-2028	5-17-2028	0.7742	0.1511
2	5-18-2028	8-17-2028	0.5147	0.1442
3	8-18-2028	11-17-2028	0.5165	0.1460
4	11-18-2028	2-17-2029	0.5174	0.1470
5	2-18-2029	5-17-2029	0.4981	0.1397
6	5-18-2029	8-17-2029	0.8792	0.6009
7	8-18-2029	9-30-2029	0.4836	0.4778
		Highest	0.8792	0.6009

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9466	2.9000e-004	0.0318	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0620	0.0620	1.6000e-004	0.0000	0.0661
Energy	0.0303	0.2751	0.2311	1.6500e-003		0.0209	0.0209		0.0209	0.0209	0.0000	584.6076	584.6076	0.0320	8.6800e-003	587.9938
Mobile	1.1220	1.2211	9.3037	0.0186	2.2041	0.0138	2.2178	0.5890	0.0128	0.6018	0.0000	1,718.9606	1,718.9606	0.1304	0.0918	1,749.5860
Waste						0.0000	0.0000		0.0000	0.0000	92.6146	0.0000	92.6146	5.4734	0.0000	229.4488
Water						0.0000	0.0000		0.0000	0.0000	1.8938	9.0888	10.9826	7.3600e-003	4.2200e-003	12.4241
<b>Total</b>	<b>2.0989</b>	<b>1.4965</b>	<b>9.5665</b>	<b>0.0202</b>	<b>2.2041</b>	<b>0.0348</b>	<b>2.2388</b>	<b>0.5890</b>	<b>0.0339</b>	<b>0.6228</b>	<b>94.5084</b>	<b>2,312.7191</b>	<b>2,407.2275</b>	<b>5.6434</b>	<b>0.1047</b>	<b>2,579.5187</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9466	2.9000e-004	0.0318	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0620	0.0620	1.6000e-004	0.0000	0.0661
Energy	0.0303	0.2751	0.2311	1.6500e-003		0.0209	0.0209		0.0209	0.0209	0.0000	584.6076	584.6076	0.0320	8.6800e-003	587.9938
Mobile	1.1220	1.2211	9.3037	0.0186	2.2041	0.0138	2.2178	0.5890	0.0128	0.6018	0.0000	1,718.9606	1,718.9606	0.1304	0.0918	1,749.5860
Waste						0.0000	0.0000		0.0000	0.0000	92.6146	0.0000	92.6146	5.4734	0.0000	229.4488
Water						0.0000	0.0000		0.0000	0.0000	1.8938	9.0888	10.9826	7.3600e-003	4.2200e-003	12.4241
<b>Total</b>	<b>2.0989</b>	<b>1.4965</b>	<b>9.5665</b>	<b>0.0202</b>	<b>2.2041</b>	<b>0.0348</b>	<b>2.2388</b>	<b>0.5890</b>	<b>0.0339</b>	<b>0.6228</b>	<b>94.5084</b>	<b>2,312.7191</b>	<b>2,407.2275</b>	<b>5.6434</b>	<b>0.1047</b>	<b>2,579.5187</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>

**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	2/18/2028	3/7/2028	5	13	
2	Site Preparation	Site Preparation	3/8/2028	3/16/2028	5	7	
3	Grading	Grading	3/17/2028	4/14/2028	5	20	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Building Construction	Building Construction	4/14/2028	7/3/2029	5	318
5	Paving	Paving	7/5/2029	8/2/2029	5	21
6	Architectural Coating	Architectural Coating	8/3/2029	8/31/2029	5	21

**Acres of Grading (Site Preparation Phase): 10.5**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 324,000; Non-Residential Outdoor: 108,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	130.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	70.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	210.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	91.00	35.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 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					
Off-Road	0.0136	0.1248	0.1262	2.5000e-004		5.5400e-003	5.5400e-003		5.1500e-003	5.1500e-003	0.0000	22.0985	22.0985	6.1700e-003	0.0000	22.2527
<b>Total</b>	<b>0.0136</b>	<b>0.1248</b>	<b>0.1262</b>	<b>2.5000e-004</b>		<b>5.5400e-003</b>	<b>5.5400e-003</b>		<b>5.1500e-003</b>	<b>5.1500e-003</b>	<b>0.0000</b>	<b>22.0985</b>	<b>22.0985</b>	<b>6.1700e-003</b>	<b>0.0000</b>	<b>22.2527</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	1.5000e-004	9.0900e-003	2.1000e-003	4.0000e-005	1.1000e-003	7.0000e-005	1.1700e-003	3.0000e-004	7.0000e-005	3.7000e-004	0.0000	3.6286	3.6286	1.5000e-004	5.8000e-004	3.8037
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	2.1000e-004	1.1000e-004	1.6800e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5109	0.5109	1.0000e-005	1.0000e-005	0.5148
<b>Total</b>	<b>3.6000e-004</b>	<b>9.2000e-003</b>	<b>3.7800e-003</b>	<b>5.0000e-005</b>	<b>1.8200e-003</b>	<b>7.0000e-005</b>	<b>1.8900e-003</b>	<b>4.9000e-004</b>	<b>7.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>4.1395</b>	<b>4.1395</b>	<b>1.6000e-004</b>	<b>5.9000e-004</b>	<b>4.3186</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	3.0000e-003	0.0130	0.1513	2.5000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	22.0985	22.0985	6.1700e-003	0.0000	22.2527
<b>Total</b>	<b>3.0000e-003</b>	<b>0.0130</b>	<b>0.1513</b>	<b>2.5000e-004</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>22.0985</b>	<b>22.0985</b>	<b>6.1700e-003</b>	<b>0.0000</b>	<b>22.2527</b>



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**3.2 Demolition - 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	1.5000e-004	9.0900e-003	2.1000e-003	4.0000e-005	1.1000e-003	7.0000e-005	1.1700e-003	3.0000e-004	7.0000e-005	3.7000e-004	0.0000	3.6286	3.6286	1.5000e-004	5.8000e-004	3.8037
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	2.1000e-004	1.1000e-004	1.6800e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5109	0.5109	1.0000e-005	1.0000e-005	0.5148
<b>Total</b>	<b>3.6000e-004</b>	<b>9.2000e-003</b>	<b>3.7800e-003</b>	<b>5.0000e-005</b>	<b>1.8200e-003</b>	<b>7.0000e-005</b>	<b>1.8900e-003</b>	<b>4.9000e-004</b>	<b>7.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>4.1395</b>	<b>4.1395</b>	<b>1.6000e-004</b>	<b>5.9000e-004</b>	<b>4.3186</b>

**3.3 Site Preparation - 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					
Fugitive Dust					0.0688	0.0000	0.0688	0.0354	0.0000	0.0354	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6500e-003	0.0883	0.0627	1.3000e-004		3.8000e-003	3.8000e-003		3.5000e-003	3.5000e-003	0.0000	11.7135	11.7135	3.7900e-003	0.0000	11.8082
<b>Total</b>	<b>8.6500e-003</b>	<b>0.0883</b>	<b>0.0627</b>	<b>1.3000e-004</b>	<b>0.0688</b>	<b>3.8000e-003</b>	<b>0.0726</b>	<b>0.0354</b>	<b>3.5000e-003</b>	<b>0.0389</b>	<b>0.0000</b>	<b>11.7135</b>	<b>11.7135</b>	<b>3.7900e-003</b>	<b>0.0000</b>	<b>11.8082</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	8.0000e-005	4.9000e-003	1.1300e-003	2.0000e-005	5.9000e-004	4.0000e-005	6.3000e-004	1.6000e-004	4.0000e-005	2.0000e-004	0.0000	1.9539	1.9539	8.0000e-005	3.1000e-004	2.0482
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-004	7.0000e-005	1.0900e-003	0.0000	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3301	0.3301	1.0000e-005	1.0000e-005	0.3326
<b>Total</b>	<b>2.1000e-004</b>	<b>4.9700e-003</b>	<b>2.2200e-003</b>	<b>2.0000e-005</b>	<b>1.0500e-003</b>	<b>4.0000e-005</b>	<b>1.0900e-003</b>	<b>2.8000e-004</b>	<b>4.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>2.2840</b>	<b>2.2840</b>	<b>9.0000e-005</b>	<b>3.2000e-004</b>	<b>2.3808</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					0.0310	0.0000	0.0310	0.0159	0.0000	0.0159	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	7.0600e-003	0.0730	1.3000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	11.7134	11.7134	3.7900e-003	0.0000	11.8081
<b>Total</b>	<b>1.6300e-003</b>	<b>7.0600e-003</b>	<b>0.0730</b>	<b>1.3000e-004</b>	<b>0.0310</b>	<b>2.2000e-004</b>	<b>0.0312</b>	<b>0.0159</b>	<b>2.2000e-004</b>	<b>0.0161</b>	<b>0.0000</b>	<b>11.7134</b>	<b>11.7134</b>	<b>3.7900e-003</b>	<b>0.0000</b>	<b>11.8081</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	8.0000e-005	4.9000e-003	1.1300e-003	2.0000e-005	5.9000e-004	4.0000e-005	6.3000e-004	1.6000e-004	4.0000e-005	2.0000e-004	0.0000	1.9539	1.9539	8.0000e-005	3.1000e-004	2.0482
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-004	7.0000e-005	1.0900e-003	0.0000	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3301	0.3301	1.0000e-005	1.0000e-005	0.3326
<b>Total</b>	<b>2.1000e-004</b>	<b>4.9700e-003</b>	<b>2.2200e-003</b>	<b>2.0000e-005</b>	<b>1.0500e-003</b>	<b>4.0000e-005</b>	<b>1.0900e-003</b>	<b>2.8000e-004</b>	<b>4.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>2.2840</b>	<b>2.2840</b>	<b>9.0000e-005</b>	<b>3.2000e-004</b>	<b>2.3808</b>

**3.4 Grading - 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					
Fugitive Dust					0.0966	0.0000	0.0966	0.0384	0.0000	0.0384	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.2934	0.2765	6.5000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	57.2315	57.2315	0.0185	0.0000	57.6943
<b>Total</b>	<b>0.0305</b>	<b>0.2934</b>	<b>0.2765</b>	<b>6.5000e-004</b>	<b>0.0966</b>	<b>0.0119</b>	<b>0.1085</b>	<b>0.0384</b>	<b>0.0109</b>	<b>0.0493</b>	<b>0.0000</b>	<b>57.2315</b>	<b>57.2315</b>	<b>0.0185</b>	<b>0.0000</b>	<b>57.6943</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	2.6000e-004	0.0154	3.5600e-003	6.0000e-005	1.8600e-003	1.2000e-004	1.9800e-003	5.1000e-004	1.1000e-004	6.2000e-004	0.0000	6.1546	6.1546	2.5000e-004	9.8000e-004	6.4517
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.3000e-004	3.6200e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1004	1.1004	2.0000e-005	3.0000e-005	1.1088
<b>Total</b>	<b>7.1000e-004</b>	<b>0.0157</b>	<b>7.1800e-003</b>	<b>7.0000e-005</b>	<b>3.4000e-003</b>	<b>1.3000e-004</b>	<b>3.5300e-003</b>	<b>9.2000e-004</b>	<b>1.2000e-004</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>7.2550</b>	<b>7.2550</b>	<b>2.7000e-004</b>	<b>1.0100e-003</b>	<b>7.5605</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					0.0435	0.0000	0.0435	0.0173	0.0000	0.0173	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0000e-003	0.0347	0.3465	6.5000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	57.2315	57.2315	0.0185	0.0000	57.6942
<b>Total</b>	<b>8.0000e-003</b>	<b>0.0347</b>	<b>0.3465</b>	<b>6.5000e-004</b>	<b>0.0435</b>	<b>1.0700e-003</b>	<b>0.0446</b>	<b>0.0173</b>	<b>1.0700e-003</b>	<b>0.0183</b>	<b>0.0000</b>	<b>57.2315</b>	<b>57.2315</b>	<b>0.0185</b>	<b>0.0000</b>	<b>57.6942</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	2.6000e-004	0.0154	3.5600e-003	6.0000e-005	1.8600e-003	1.2000e-004	1.9800e-003	5.1000e-004	1.1000e-004	6.2000e-004	0.0000	6.1546	6.1546	2.5000e-004	9.8000e-004	6.4517
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.3000e-004	3.6200e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1004	1.1004	2.0000e-005	3.0000e-005	1.1088
<b>Total</b>	<b>7.1000e-004</b>	<b>0.0157</b>	<b>7.1800e-003</b>	<b>7.0000e-005</b>	<b>3.4000e-003</b>	<b>1.3000e-004</b>	<b>3.5300e-003</b>	<b>9.2000e-004</b>	<b>1.2000e-004</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>7.2550</b>	<b>7.2550</b>	<b>2.7000e-004</b>	<b>1.0100e-003</b>	<b>7.5605</b>

**3.5 Building Construction - 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					
Off-Road	0.1272	1.1597	1.4959	2.5100e-003		0.0491	0.0491		0.0462	0.0462	0.0000	215.6851	215.6851	0.0507	0.0000	216.9526
<b>Total</b>	<b>0.1272</b>	<b>1.1597</b>	<b>1.4959</b>	<b>2.5100e-003</b>		<b>0.0491</b>	<b>0.0491</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>215.6851</b>	<b>215.6851</b>	<b>0.0507</b>	<b>0.0000</b>	<b>216.9526</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	3.5400e-003	0.1441	0.0430	5.6000e-004	0.0191	7.6000e-004	0.0198	5.5000e-003	7.3000e-004	6.2300e-003	0.0000	54.4965	54.4965	1.3200e-003	8.0700e-003	56.9351
Worker	0.0180	9.1500e-003	0.1461	4.6000e-004	0.0622	2.6000e-004	0.0624	0.0165	2.4000e-004	0.0168	0.0000	44.3450	44.3450	1.0000e-003	1.0600e-003	44.6851
<b>Total</b>	<b>0.0215</b>	<b>0.1532</b>	<b>0.1891</b>	<b>1.0200e-003</b>	<b>0.0812</b>	<b>1.0200e-003</b>	<b>0.0822</b>	<b>0.0220</b>	<b>9.7000e-004</b>	<b>0.0230</b>	<b>0.0000</b>	<b>98.8415</b>	<b>98.8415</b>	<b>2.3200e-003</b>	<b>9.1300e-003</b>	<b>101.6202</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	0.0305	0.2078	1.6238	2.5100e-003		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	215.6848	215.6848	0.0507	0.0000	216.9524
<b>Total</b>	<b>0.0305</b>	<b>0.2078</b>	<b>1.6238</b>	<b>2.5100e-003</b>		<b>3.7900e-003</b>	<b>3.7900e-003</b>		<b>3.7900e-003</b>	<b>3.7900e-003</b>	<b>0.0000</b>	<b>215.6848</b>	<b>215.6848</b>	<b>0.0507</b>	<b>0.0000</b>	<b>216.9524</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	3.5400e-003	0.1441	0.0430	5.6000e-004	0.0191	7.6000e-004	0.0198	5.5000e-003	7.3000e-004	6.2300e-003	0.0000	54.4965	54.4965	1.3200e-003	8.0700e-003	56.9351
Worker	0.0180	9.1500e-003	0.1461	4.6000e-004	0.0622	2.6000e-004	0.0624	0.0165	2.4000e-004	0.0168	0.0000	44.3450	44.3450	1.0000e-003	1.0600e-003	44.6851
<b>Total</b>	<b>0.0215</b>	<b>0.1532</b>	<b>0.1891</b>	<b>1.0200e-003</b>	<b>0.0812</b>	<b>1.0200e-003</b>	<b>0.0822</b>	<b>0.0220</b>	<b>9.7000e-004</b>	<b>0.0230</b>	<b>0.0000</b>	<b>98.8415</b>	<b>98.8415</b>	<b>2.3200e-003</b>	<b>9.1300e-003</b>	<b>101.6202</b>

**3.5 Building Construction - 2029**

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	0.0903	0.8230	1.0616	1.7800e-003		0.0348	0.0348		0.0328	0.0328	0.0000	153.0668	153.0668	0.0360	0.0000	153.9664
<b>Total</b>	<b>0.0903</b>	<b>0.8230</b>	<b>1.0616</b>	<b>1.7800e-003</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0328</b>	<b>0.0328</b>	<b>0.0000</b>	<b>153.0668</b>	<b>153.0668</b>	<b>0.0360</b>	<b>0.0000</b>	<b>153.9664</b>

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**3.5 Building Construction - 2029**

**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	2.4400e-003	0.1007	0.0301	3.9000e-004	0.0135	5.3000e-004	0.0140	3.9100e-003	5.1000e-004	4.4100e-003	0.0000	37.9161	37.9161	9.2000e-004	5.6200e-003	39.6152
Worker	0.0120	6.0300e-003	0.0993	3.2000e-004	0.0441	1.7000e-004	0.0443	0.0117	1.6000e-004	0.0119	0.0000	30.8767	30.8767	6.6000e-004	7.2000e-004	31.1078
<b>Total</b>	<b>0.0145</b>	<b>0.1067</b>	<b>0.1294</b>	<b>7.1000e-004</b>	<b>0.0576</b>	<b>7.0000e-004</b>	<b>0.0583</b>	<b>0.0156</b>	<b>6.7000e-004</b>	<b>0.0163</b>	<b>0.0000</b>	<b>68.7928</b>	<b>68.7928</b>	<b>1.5800e-003</b>	<b>6.3400e-003</b>	<b>70.7230</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	0.0216	0.1475	1.1524	1.7800e-003		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	153.0667	153.0667	0.0360	0.0000	153.9662
<b>Total</b>	<b>0.0216</b>	<b>0.1475</b>	<b>1.1524</b>	<b>1.7800e-003</b>		<b>2.6900e-003</b>	<b>2.6900e-003</b>		<b>2.6900e-003</b>	<b>2.6900e-003</b>	<b>0.0000</b>	<b>153.0667</b>	<b>153.0667</b>	<b>0.0360</b>	<b>0.0000</b>	<b>153.9662</b>



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**3.5 Building Construction - 2029**

**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	2.4400e-003	0.1007	0.0301	3.9000e-004	0.0135	5.3000e-004	0.0140	3.9100e-003	5.1000e-004	4.4100e-003	0.0000	37.9161	37.9161	9.2000e-004	5.6200e-003	39.6152
Worker	0.0120	6.0300e-003	0.0993	3.2000e-004	0.0441	1.7000e-004	0.0443	0.0117	1.6000e-004	0.0119	0.0000	30.8767	30.8767	6.6000e-004	7.2000e-004	31.1078
<b>Total</b>	<b>0.0145</b>	<b>0.1067</b>	<b>0.1294</b>	<b>7.1000e-004</b>	<b>0.0576</b>	<b>7.0000e-004</b>	<b>0.0583</b>	<b>0.0156</b>	<b>6.7000e-004</b>	<b>0.0163</b>	<b>0.0000</b>	<b>68.7928</b>	<b>68.7928</b>	<b>1.5800e-003</b>	<b>6.3400e-003</b>	<b>70.7230</b>

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6100e-003	0.0901	0.1531	2.4000e-004		4.3900e-003	4.3900e-003		4.0400e-003	4.0400e-003	0.0000	21.0202	21.0202	6.8000e-003	0.0000	21.1902
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>9.6100e-003</b>	<b>0.0901</b>	<b>0.1531</b>	<b>2.4000e-004</b>		<b>4.3900e-003</b>	<b>4.3900e-003</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>	<b>0.0000</b>	<b>21.0202</b>	<b>21.0202</b>	<b>6.8000e-003</b>	<b>0.0000</b>	<b>21.1902</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**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	3.2000e-004	1.6000e-004	2.6000e-003	1.0000e-005	1.1600e-003	0.0000	1.1600e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.8097	0.8097	2.0000e-005	2.0000e-005	0.8158
<b>Total</b>	<b>3.2000e-004</b>	<b>1.6000e-004</b>	<b>2.6000e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.8097</b>	<b>0.8097</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8158</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	2.9400e-003	0.0128	0.1816	2.4000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	21.0202	21.0202	6.8000e-003	0.0000	21.1902
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>2.9400e-003</b>	<b>0.0128</b>	<b>0.1816</b>	<b>2.4000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>21.0202</b>	<b>21.0202</b>	<b>6.8000e-003</b>	<b>0.0000</b>	<b>21.1902</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**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	3.2000e-004	1.6000e-004	2.6000e-003	1.0000e-005	1.1600e-003	0.0000	1.1600e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.8097	0.8097	2.0000e-005	2.0000e-005	0.8158
<b>Total</b>	<b>3.2000e-004</b>	<b>1.6000e-004</b>	<b>2.6000e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.8097</b>	<b>0.8097</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8158</b>

**3.7 Architectural Coating - 2029**

**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	1.0012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7900e-003	0.0120	0.0190	3.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	2.6809	2.6809	1.5000e-004	0.0000	2.6846
<b>Total</b>	<b>1.0030</b>	<b>0.0120</b>	<b>0.0190</b>	<b>3.0000e-005</b>		<b>5.4000e-004</b>	<b>5.4000e-004</b>		<b>5.4000e-004</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>2.6809</b>	<b>2.6809</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.6846</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	3.8000e-004	1.9000e-004	3.1200e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.3900e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.9716	0.9716	2.0000e-005	2.0000e-005	0.9789
<b>Total</b>	<b>3.8000e-004</b>	<b>1.9000e-004</b>	<b>3.1200e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.9716</b>	<b>0.9716</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9789</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	1.0012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1000e-004	1.3500e-003	0.0192	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.6809	2.6809	1.5000e-004	0.0000	2.6846
<b>Total</b>	<b>1.0015</b>	<b>1.3500e-003</b>	<b>0.0192</b>	<b>3.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.6809</b>	<b>2.6809</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.6846</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	3.8000e-004	1.9000e-004	3.1200e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.3900e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.9716	0.9716	2.0000e-005	2.0000e-005	0.9789
<b>Total</b>	<b>3.8000e-004</b>	<b>1.9000e-004</b>	<b>3.1200e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.9716</b>	<b>0.9716</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9789</b>

Innovation Park CNU Phase 3A - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3A  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	760.00	Space	6.84	228,000.00	0
Strip Mall	29.00	1000sqft	0.67	29,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2030
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Retail/Parking building 2  
 Land Use - Retail + Parking  
 Construction Phase - Schedule adjusted  
 Trips and VMT - 20 truck/ day for demo, site prep, grading  
 Grading -  
 Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	230.00	281.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	25.00
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LandUseSquareFeet	304,000.00	228,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	HaulingTripNumber	0.00	420.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2029	0.1778	1.6728	1.8922	4.2800e-003	0.2635	0.0632	0.3267	0.1112	0.0591	0.1702	0.0000	384.7869	384.7869	0.0697	0.0134	390.5293
2030	0.2822	0.7114	1.3678	3.1000e-003	0.0668	0.0143	0.0811	0.0181	0.0142	0.0323	0.0000	274.0962	274.0962	9.8200e-003	7.0900e-003	276.4555
<b>Maximum</b>	<b>0.2822</b>	<b>1.6728</b>	<b>1.8922</b>	<b>4.2800e-003</b>	<b>0.2635</b>	<b>0.0632</b>	<b>0.3267</b>	<b>0.1112</b>	<b>0.0591</b>	<b>0.1702</b>	<b>0.0000</b>	<b>384.7869</b>	<b>384.7869</b>	<b>0.0697</b>	<b>0.0134</b>	<b>390.5293</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	tons/yr										MT/yr					
2029	0.0582	0.4422	2.0866	4.2800e-003	0.1685	6.1300e-003	0.1747	0.0636	6.0600e-003	0.0697	0.0000	384.7866	384.7866	0.0697	0.0134	390.5290
2030	0.2063	0.2752	1.4671	3.1000e-003	0.0668	3.8200e-003	0.0706	0.0181	3.7800e-003	0.0219	0.0000	274.0960	274.0960	9.8200e-003	7.0900e-003	276.4553
<b>Maximum</b>	<b>0.2063</b>	<b>0.4422</b>	<b>2.0866</b>	<b>4.2800e-003</b>	<b>0.1685</b>	<b>6.1300e-003</b>	<b>0.1747</b>	<b>0.0636</b>	<b>6.0600e-003</b>	<b>0.0697</b>	<b>0.0000</b>	<b>384.7866</b>	<b>384.7866</b>	<b>0.0697</b>	<b>0.0134</b>	<b>390.5290</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	42.49	69.91	-9.01	0.00	28.75	87.15	39.84	36.79	86.58	54.81	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-19-2029	6-18-2029	0.6814	0.1556
2	6-19-2029	9-18-2029	0.5245	0.1541
3	9-19-2029	12-18-2029	0.5224	0.1560
4	12-19-2029	3-18-2030	0.3896	0.1535
5	3-19-2030	6-18-2030	0.3727	0.1532
6	6-19-2030	9-18-2030	0.2910	0.1868
		Highest	0.6814	0.1868

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1455	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	5.0000e-005	0.0000	0.0208
Energy	8.4000e-004	7.6300e-003	6.4100e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	262.5440	262.5440	0.0236	2.9900e-003	264.0259
Mobile	0.3432	0.3288	2.5514	4.4900e-003	0.5359	3.4100e-003	0.5393	0.1432	3.1800e-003	0.1464	0.0000	438.8356	438.8356	0.0365	0.0249	447.1738
Waste						0.0000	0.0000		0.0000	0.0000	6.1811	0.0000	6.1811	0.3653	0.0000	15.3134
Water						0.0000	0.0000		0.0000	0.0000	0.7600	2.4862	3.2462	2.8500e-003	1.6800e-003	3.8181
<b>Total</b>	<b>0.4896</b>	<b>0.3365</b>	<b>2.5678</b>	<b>4.5400e-003</b>	<b>0.5359</b>	<b>4.0300e-003</b>	<b>0.5399</b>	<b>0.1432</b>	<b>3.8000e-003</b>	<b>0.1470</b>	<b>6.9411</b>	<b>703.8853</b>	<b>710.8264</b>	<b>0.4283</b>	<b>0.0296</b>	<b>730.3520</b>

Innovation Park CNU Phase 3A - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1455	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	5.0000e-005	0.0000	0.0208
Energy	8.4000e-004	7.6300e-003	6.4100e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	262.5440	262.5440	0.0236	2.9900e-003	264.0259
Mobile	0.3432	0.3288	2.5514	4.4900e-003	0.5359	3.4100e-003	0.5393	0.1432	3.1800e-003	0.1464	0.0000	438.8356	438.8356	0.0365	0.0249	447.1738
Waste						0.0000	0.0000		0.0000	0.0000	6.1811	0.0000	6.1811	0.3653	0.0000	15.3134
Water						0.0000	0.0000		0.0000	0.0000	0.7600	2.4862	3.2462	2.8500e-003	1.6800e-003	3.8181
<b>Total</b>	<b>0.4896</b>	<b>0.3365</b>	<b>2.5678</b>	<b>4.5400e-003</b>	<b>0.5359</b>	<b>4.0300e-003</b>	<b>0.5399</b>	<b>0.1432</b>	<b>3.8000e-003</b>	<b>0.1470</b>	<b>6.9411</b>	<b>703.8853</b>	<b>710.8264</b>	<b>0.4283</b>	<b>0.0296</b>	<b>730.3520</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/19/2029	4/13/2029	5	20	
2	Site Preparation	Site Preparation	4/16/2029	4/27/2029	5	10	
3	Grading	Grading	4/30/2029	5/28/2029	5	21	

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4	Building Construction	Building Construction	5/28/2029	6/24/2030	5	281
5	Paving	Paving	6/25/2030	7/26/2030	5	24
6	Architectural Coating	Architectural Coating	7/29/2030	8/30/2030	5	25

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 21**

**Acres of Paving: 6.84**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 43,500; Non-Residential Outdoor: 14,500; Striped Parking Area: 13,680 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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Architectural Coating	Air Compressors	1	6.00	78	0.48
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	400.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	200.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	420.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	105.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Water Exposed Area

**3.2 Demolition - 2029**

**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	0.0209	0.1920	0.1942	3.9000e-004		8.5300e-003	8.5300e-003		7.9200e-003	7.9200e-003	0.0000	33.9977	33.9977	9.4900e-003	0.0000	34.2350
<b>Total</b>	<b>0.0209</b>	<b>0.1920</b>	<b>0.1942</b>	<b>3.9000e-004</b>		<b>8.5300e-003</b>	<b>8.5300e-003</b>		<b>7.9200e-003</b>	<b>7.9200e-003</b>	<b>0.0000</b>	<b>33.9977</b>	<b>33.9977</b>	<b>9.4900e-003</b>	<b>0.0000</b>	<b>34.2350</b>

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**3.2 Demolition - 2029**

**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	4.6000e-004	0.0274	6.4600e-003	1.1000e-004	3.3800e-003	2.1000e-004	3.5800e-003	9.3000e-004	2.0000e-004	1.1200e-003	0.0000	10.9275	10.9275	4.4000e-004	1.7300e-003	11.4551
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.5000e-004	2.4800e-003	1.0000e-005	1.1000e-003	0.0000	1.1100e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.7712	0.7712	2.0000e-005	2.0000e-005	0.7769
<b>Total</b>	<b>7.6000e-004</b>	<b>0.0275</b>	<b>8.9400e-003</b>	<b>1.2000e-004</b>	<b>4.4800e-003</b>	<b>2.1000e-004</b>	<b>4.6900e-003</b>	<b>1.2200e-003</b>	<b>2.0000e-004</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>11.6987</b>	<b>11.6987</b>	<b>4.6000e-004</b>	<b>1.7500e-003</b>	<b>12.2321</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	4.6200e-003	0.0200	0.2328	3.9000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	33.9976	33.9976	9.4900e-003	0.0000	34.2349
<b>Total</b>	<b>4.6200e-003</b>	<b>0.0200</b>	<b>0.2328</b>	<b>3.9000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>33.9976</b>	<b>33.9976</b>	<b>9.4900e-003</b>	<b>0.0000</b>	<b>34.2349</b>

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**3.2 Demolition - 2029**

**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	4.6000e-004	0.0274	6.4600e-003	1.1000e-004	3.3800e-003	2.1000e-004	3.5800e-003	9.3000e-004	2.0000e-004	1.1200e-003	0.0000	10.9275	10.9275	4.4000e-004	1.7300e-003	11.4551
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.5000e-004	2.4800e-003	1.0000e-005	1.1000e-003	0.0000	1.1100e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.7712	0.7712	2.0000e-005	2.0000e-005	0.7769
<b>Total</b>	<b>7.6000e-004</b>	<b>0.0275</b>	<b>8.9400e-003</b>	<b>1.2000e-004</b>	<b>4.4800e-003</b>	<b>2.1000e-004</b>	<b>4.6900e-003</b>	<b>1.2200e-003</b>	<b>2.0000e-004</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>11.6987</b>	<b>11.6987</b>	<b>4.6000e-004</b>	<b>1.7500e-003</b>	<b>12.2321</b>

**3.3 Site Preparation - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1262	0.0896	1.9000e-004		5.4300e-003	5.4300e-003		5.0000e-003	5.0000e-003	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688
<b>Total</b>	<b>0.0124</b>	<b>0.1262</b>	<b>0.0896</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>5.4300e-003</b>	<b>0.1037</b>	<b>0.0505</b>	<b>5.0000e-003</b>	<b>0.0555</b>	<b>0.0000</b>	<b>16.7335</b>	<b>16.7335</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8688</b>



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**3.3 Site Preparation - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3000e-004	0.0137	3.2300e-003	6.0000e-005	1.6900e-003	1.0000e-004	1.7900e-003	4.6000e-004	1.0000e-004	5.6000e-004	0.0000	5.4638	5.4638	2.2000e-004	8.7000e-004	5.7276
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-004	9.0000e-005	1.4900e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4627	0.4627	1.0000e-005	1.0000e-005	0.4662
<b>Total</b>	<b>4.1000e-004</b>	<b>0.0138</b>	<b>4.7200e-003</b>	<b>6.0000e-005</b>	<b>2.3500e-003</b>	<b>1.0000e-004</b>	<b>2.4500e-003</b>	<b>6.4000e-004</b>	<b>1.0000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>5.9265</b>	<b>5.9265</b>	<b>2.3000e-004</b>	<b>8.8000e-004</b>	<b>6.1937</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					0.0442	0.0000	0.0442	0.0227	0.0000	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688
<b>Total</b>	<b>2.3300e-003</b>	<b>0.0101</b>	<b>0.1043</b>	<b>1.9000e-004</b>	<b>0.0442</b>	<b>3.1000e-004</b>	<b>0.0445</b>	<b>0.0227</b>	<b>3.1000e-004</b>	<b>0.0230</b>	<b>0.0000</b>	<b>16.7335</b>	<b>16.7335</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8688</b>

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**3.3 Site Preparation - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3000e-004	0.0137	3.2300e-003	6.0000e-005	1.6900e-003	1.0000e-004	1.7900e-003	4.6000e-004	1.0000e-004	5.6000e-004	0.0000	5.4638	5.4638	2.2000e-004	8.7000e-004	5.7276
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-004	9.0000e-005	1.4900e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4627	0.4627	1.0000e-005	1.0000e-005	0.4662
<b>Total</b>	<b>4.1000e-004</b>	<b>0.0138</b>	<b>4.7200e-003</b>	<b>6.0000e-005</b>	<b>2.3500e-003</b>	<b>1.0000e-004</b>	<b>2.4500e-003</b>	<b>6.4000e-004</b>	<b>1.0000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>5.9265</b>	<b>5.9265</b>	<b>2.3000e-004</b>	<b>8.8000e-004</b>	<b>6.1937</b>

**3.4 Grading - 2029**

**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					0.0744	0.0000	0.0744	0.0360	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.1608	0.1527	3.1000e-004		6.5500e-003	6.5500e-003		6.0200e-003	6.0200e-003	0.0000	27.3733	27.3733	8.8500e-003	0.0000	27.5946
<b>Total</b>	<b>0.0160</b>	<b>0.1608</b>	<b>0.1527</b>	<b>3.1000e-004</b>	<b>0.0744</b>	<b>6.5500e-003</b>	<b>0.0809</b>	<b>0.0360</b>	<b>6.0200e-003</b>	<b>0.0420</b>	<b>0.0000</b>	<b>27.3733</b>	<b>27.3733</b>	<b>8.8500e-003</b>	<b>0.0000</b>	<b>27.5946</b>

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**3.4 Grading - 2029**

**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	4.9000e-004	0.0287	6.7900e-003	1.2000e-004	3.5500e-003	2.2000e-004	3.7600e-003	9.7000e-004	2.1000e-004	1.1800e-003	0.0000	11.4739	11.4739	4.6000e-004	1.8200e-003	12.0279
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	3.2000e-004	1.6000e-004	2.6000e-003	1.0000e-005	1.1600e-003	0.0000	1.1600e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.8097	0.8097	2.0000e-005	2.0000e-005	0.8158
<b>Total</b>	<b>8.1000e-004</b>	<b>0.0289</b>	<b>9.3900e-003</b>	<b>1.3000e-004</b>	<b>4.7100e-003</b>	<b>2.2000e-004</b>	<b>4.9200e-003</b>	<b>1.2800e-003</b>	<b>2.1000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>12.2836</b>	<b>12.2836</b>	<b>4.8000e-004</b>	<b>1.8400e-003</b>	<b>12.8436</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					0.0335	0.0000	0.0335	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8100e-003	0.0165	0.1864	3.1000e-004		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	27.3733	27.3733	8.8500e-003	0.0000	27.5946
<b>Total</b>	<b>3.8100e-003</b>	<b>0.0165</b>	<b>0.1864</b>	<b>3.1000e-004</b>	<b>0.0335</b>	<b>5.1000e-004</b>	<b>0.0340</b>	<b>0.0162</b>	<b>5.1000e-004</b>	<b>0.0167</b>	<b>0.0000</b>	<b>27.3733</b>	<b>27.3733</b>	<b>8.8500e-003</b>	<b>0.0000</b>	<b>27.5946</b>

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**3.4 Grading - 2029**

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	4.9000e-004	0.0287	6.7900e-003	1.2000e-004	3.5500e-003	2.2000e-004	3.7600e-003	9.7000e-004	2.1000e-004	1.1800e-003	0.0000	11.4739	11.4739	4.6000e-004	1.8200e-003	12.0279
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	3.2000e-004	1.6000e-004	2.6000e-003	1.0000e-005	1.1600e-003	0.0000	1.1600e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.8097	0.8097	2.0000e-005	2.0000e-005	0.8158
<b>Total</b>	<b>8.1000e-004</b>	<b>0.0289</b>	<b>9.3900e-003</b>	<b>1.3000e-004</b>	<b>4.7100e-003</b>	<b>2.2000e-004</b>	<b>4.9200e-003</b>	<b>1.2800e-003</b>	<b>2.1000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>12.2836</b>	<b>12.2836</b>	<b>4.8000e-004</b>	<b>1.8400e-003</b>	<b>12.8436</b>

**3.5 Building Construction - 2029**

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	0.1067	0.9726	1.2546	2.1000e-003		0.0412	0.0412		0.0387	0.0387	0.0000	180.8972	180.8972	0.0425	0.0000	181.9603
<b>Total</b>	<b>0.1067</b>	<b>0.9726</b>	<b>1.2546</b>	<b>2.1000e-003</b>		<b>0.0412</b>	<b>0.0412</b>		<b>0.0387</b>	<b>0.0387</b>	<b>0.0000</b>	<b>180.8972</b>	<b>180.8972</b>	<b>0.0425</b>	<b>0.0000</b>	<b>181.9603</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4700e-003	0.1428	0.0427	5.5000e-004	0.0192	7.5000e-004	0.0199	5.5400e-003	7.2000e-004	6.2600e-003	0.0000	53.7720	53.7720	1.3100e-003	7.9800e-003	56.1815
Worker	0.0164	8.2200e-003	0.1354	4.3000e-004	0.0602	2.3000e-004	0.0604	0.0160	2.1000e-004	0.0162	0.0000	42.1046	42.1046	9.0000e-004	9.8000e-004	42.4198
<b>Total</b>	<b>0.0199</b>	<b>0.1510</b>	<b>0.1781</b>	<b>9.8000e-004</b>	<b>0.0793</b>	<b>9.8000e-004</b>	<b>0.0803</b>	<b>0.0215</b>	<b>9.3000e-004</b>	<b>0.0225</b>	<b>0.0000</b>	<b>95.8765</b>	<b>95.8765</b>	<b>2.2100e-003</b>	<b>8.9600e-003</b>	<b>98.6013</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	0.0256	0.1743	1.3619	2.1000e-003		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	180.8970	180.8970	0.0425	0.0000	181.9600
<b>Total</b>	<b>0.0256</b>	<b>0.1743</b>	<b>1.3619</b>	<b>2.1000e-003</b>		<b>3.1800e-003</b>	<b>3.1800e-003</b>		<b>3.1800e-003</b>	<b>3.1800e-003</b>	<b>0.0000</b>	<b>180.8970</b>	<b>180.8970</b>	<b>0.0425</b>	<b>0.0000</b>	<b>181.9600</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4700e-003	0.1428	0.0427	5.5000e-004	0.0192	7.5000e-004	0.0199	5.5400e-003	7.2000e-004	6.2600e-003	0.0000	53.7720	53.7720	1.3100e-003	7.9800e-003	56.1815
Worker	0.0164	8.2200e-003	0.1354	4.3000e-004	0.0602	2.3000e-004	0.0604	0.0160	2.1000e-004	0.0162	0.0000	42.1046	42.1046	9.0000e-004	9.8000e-004	42.4198
<b>Total</b>	<b>0.0199</b>	<b>0.1510</b>	<b>0.1781</b>	<b>9.8000e-004</b>	<b>0.0793</b>	<b>9.8000e-004</b>	<b>0.0803</b>	<b>0.0215</b>	<b>9.3000e-004</b>	<b>0.0225</b>	<b>0.0000</b>	<b>95.8765</b>	<b>95.8765</b>	<b>2.2100e-003</b>	<b>8.9600e-003</b>	<b>98.6013</b>

**3.5 Building Construction - 2030**

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	0.0818	0.4959	1.0098	1.9300e-003		9.2600e-003	9.2600e-003		9.2600e-003	9.2600e-003	0.0000	164.2881	164.2881	6.5900e-003	0.0000	164.4529
<b>Total</b>	<b>0.0818</b>	<b>0.4959</b>	<b>1.0098</b>	<b>1.9300e-003</b>		<b>9.2600e-003</b>	<b>9.2600e-003</b>		<b>9.2600e-003</b>	<b>9.2600e-003</b>	<b>0.0000</b>	<b>164.2881</b>	<b>164.2881</b>	<b>6.5900e-003</b>	<b>0.0000</b>	<b>164.4529</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	2.7000e-003	0.1128	0.0339	4.3000e-004	0.0154	5.9000e-004	0.0160	4.4400e-003	5.6000e-004	5.0000e-003	0.0000	42.2944	42.2944	1.0300e-003	6.2800e-003	44.1922
Worker	0.0124	6.1600e-003	0.1044	3.4000e-004	0.0482	1.7000e-004	0.0484	0.0128	1.6000e-004	0.0130	0.0000	33.1663	33.1663	6.7000e-004	7.6000e-004	33.4095
<b>Total</b>	<b>0.0151</b>	<b>0.1189</b>	<b>0.1383</b>	<b>7.7000e-004</b>	<b>0.0636</b>	<b>7.6000e-004</b>	<b>0.0643</b>	<b>0.0173</b>	<b>7.2000e-004</b>	<b>0.0180</b>	<b>0.0000</b>	<b>75.4608</b>	<b>75.4608</b>	<b>1.7000e-003</b>	<b>7.0400e-003</b>	<b>77.6017</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	0.0205	0.1397	1.0913	1.9300e-003		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	164.2879	164.2879	6.5900e-003	0.0000	164.4527
<b>Total</b>	<b>0.0205</b>	<b>0.1397</b>	<b>1.0913</b>	<b>1.9300e-003</b>		<b>2.5500e-003</b>	<b>2.5500e-003</b>		<b>2.5500e-003</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>164.2879</b>	<b>164.2879</b>	<b>6.5900e-003</b>	<b>0.0000</b>	<b>164.4527</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

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	2.7000e-003	0.1128	0.0339	4.3000e-004	0.0154	5.9000e-004	0.0160	4.4400e-003	5.6000e-004	5.0000e-003	0.0000	42.2944	42.2944	1.0300e-003	6.2800e-003	44.1922
Worker	0.0124	6.1600e-003	0.1044	3.4000e-004	0.0482	1.7000e-004	0.0484	0.0128	1.6000e-004	0.0130	0.0000	33.1663	33.1663	6.7000e-004	7.6000e-004	33.4095
<b>Total</b>	<b>0.0151</b>	<b>0.1189</b>	<b>0.1383</b>	<b>7.7000e-004</b>	<b>0.0636</b>	<b>7.6000e-004</b>	<b>0.0643</b>	<b>0.0173</b>	<b>7.2000e-004</b>	<b>0.0180</b>	<b>0.0000</b>	<b>75.4608</b>	<b>75.4608</b>	<b>1.7000e-003</b>	<b>7.0400e-003</b>	<b>77.6017</b>

**3.6 Paving - 2030**

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	0.0166	0.0854	0.1902	3.4000e-004		3.9700e-003	3.9700e-003		3.9700e-003	3.9700e-003	0.0000	28.9194	28.9194	1.3600e-003	0.0000	28.9533
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>0.0166</b>	<b>0.0854</b>	<b>0.1902</b>	<b>3.4000e-004</b>		<b>3.9700e-003</b>	<b>3.9700e-003</b>		<b>3.9700e-003</b>	<b>3.9700e-003</b>	<b>0.0000</b>	<b>28.9194</b>	<b>28.9194</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>28.9533</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**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	3.4000e-004	1.7000e-004	2.8600e-003	1.0000e-005	1.3200e-003	0.0000	1.3300e-003	3.5000e-004	0.0000	3.6000e-004	0.0000	0.9097	0.9097	2.0000e-005	2.0000e-005	0.9164
<b>Total</b>	<b>3.4000e-004</b>	<b>1.7000e-004</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9097</b>	<b>0.9097</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9164</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	3.3700e-003	0.0146	0.2076	3.4000e-004		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	28.9194	28.9194	1.3600e-003	0.0000	28.9533
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>3.3700e-003</b>	<b>0.0146</b>	<b>0.2076</b>	<b>3.4000e-004</b>		<b>4.5000e-004</b>	<b>4.5000e-004</b>		<b>4.5000e-004</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>28.9194</b>	<b>28.9194</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>28.9533</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**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	3.4000e-004	1.7000e-004	2.8600e-003	1.0000e-005	1.3200e-003	0.0000	1.3300e-003	3.5000e-004	0.0000	3.6000e-004	0.0000	0.9097	0.9097	2.0000e-005	2.0000e-005	0.9164
<b>Total</b>	<b>3.4000e-004</b>	<b>1.7000e-004</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9097</b>	<b>0.9097</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9164</b>

**3.7 Architectural Coating - 2030**

**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	0.1661					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0107	0.0225	4.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.1916	3.1916	1.3000e-004	0.0000	3.1948
<b>Total</b>	<b>0.1678</b>	<b>0.0107</b>	<b>0.0225</b>	<b>4.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.1916</b>	<b>3.1916</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.1948</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	5.0000e-004	2.5000e-004	4.1800e-003	1.0000e-005	1.9300e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.3267	1.3267	3.0000e-005	3.0000e-005	1.3364
<b>Total</b>	<b>5.0000e-004</b>	<b>2.5000e-004</b>	<b>4.1800e-003</b>	<b>1.0000e-005</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>	<b>1.9300e-003</b>	<b>5.1000e-004</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.3267</b>	<b>1.3267</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3364</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	0.1661					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7000e-004	1.6100e-003	0.0229	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.1916	3.1916	1.3000e-004	0.0000	3.1948
<b>Total</b>	<b>0.1665</b>	<b>1.6100e-003</b>	<b>0.0229</b>	<b>4.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>3.1916</b>	<b>3.1916</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.1948</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	5.0000e-004	2.5000e-004	4.1800e-003	1.0000e-005	1.9300e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.3267	1.3267	3.0000e-005	3.0000e-005	1.3364
<b>Total</b>	<b>5.0000e-004</b>	<b>2.5000e-004</b>	<b>4.1800e-003</b>	<b>1.0000e-005</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>	<b>1.9300e-003</b>	<b>5.1000e-004</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.3267</b>	<b>1.3267</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3364</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Innovation Park CNU Phase 3B - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3B  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4yr)	1,000.00	Student	4.22	108,000.00	0
General Heavy Industry	54.00	1000sqft	1.24	54,000.00	0
Strip Mall	27.00	1000sqft	0.62	27,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2030
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - University BLDG 2

Land Use - University BLDG 2

Construction Phase - Schedule adjusted

Trips and VMT - 10 truck/day for demo, site prep. grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	230.00	306.00
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	20.00	27.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblLandUse	LandUseSquareFeet	183,797.47	108,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	HaulingTripNumber	0.00	160.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3B - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2029	0.1852	1.7059	2.0079	4.2000e-003	0.2266	0.0667	0.2933	0.0966	0.0624	0.1591	0.0000	374.4251	374.4251	0.0720	9.6900e-003	379.1130
2030	0.9865	0.6684	1.3116	2.8400e-003	0.0478	0.0142	0.0620	0.0130	0.0142	0.0271	0.0000	249.0624	249.0624	9.2300e-003	5.0300e-003	250.7931
<b>Maximum</b>	<b>0.9865</b>	<b>1.7059</b>	<b>2.0079</b>	<b>4.2000e-003</b>	<b>0.2266</b>	<b>0.0667</b>	<b>0.2933</b>	<b>0.0966</b>	<b>0.0624</b>	<b>0.1591</b>	<b>0.0000</b>	<b>374.4251</b>	<b>374.4251</b>	<b>0.0720</b>	<b>9.6900e-003</b>	<b>379.1130</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	tons/yr										MT/yr					
2029	0.0575	0.4060	2.2037	4.2000e-003	0.1434	6.0100e-003	0.1494	0.0547	5.9600e-003	0.0607	0.0000	374.4248	374.4248	0.0720	9.6900e-003	379.1127
2030	0.9113	0.2369	1.4098	2.8400e-003	0.0478	3.5600e-003	0.0513	0.0130	3.5300e-003	0.0165	0.0000	249.0622	249.0622	9.2300e-003	5.0300e-003	250.7929
<b>Maximum</b>	<b>0.9113</b>	<b>0.4060</b>	<b>2.2037</b>	<b>4.2000e-003</b>	<b>0.1434</b>	<b>6.0100e-003</b>	<b>0.1494</b>	<b>0.0547</b>	<b>5.9600e-003</b>	<b>0.0607</b>	<b>0.0000</b>	<b>374.4248</b>	<b>374.4248</b>	<b>0.0720</b>	<b>9.6900e-003</b>	<b>379.1127</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	17.31	72.93	-8.86	0.00	30.34	88.16	43.50	38.24	87.61	58.55	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-19-2029	5-18-2029	0.5985	0.1180
2	5-19-2029	8-18-2029	0.5062	0.1357
3	8-19-2029	11-18-2029	0.5078	0.1374
4	11-19-2029	2-18-2030	0.4283	0.1382
5	2-19-2030	5-18-2030	0.3440	0.1316
6	5-19-2030	8-18-2030	0.8171	0.6455
7	8-19-2030	9-30-2030	0.2825	0.2790
		Highest	0.8171	0.6455

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8270	1.2000e-004	0.0137	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0268	0.0268	7.0000e-005	0.0000	0.0286
Energy	0.0263	0.2388	0.2006	1.4300e-003		0.0182	0.0182		0.0182	0.0182	0.0000	581.6787	581.6787	0.0346	8.3600e-003	585.0362
Mobile	0.8483	0.8923	6.9431	0.0134	1.6266	9.8000e-003	1.6364	0.4346	9.1500e-003	0.4438	0.0000	1,310.8550	1,310.8550	0.0970	0.0680	1,333.5451
Waste						0.0000	0.0000		0.0000	0.0000	56.3929	0.0000	56.3929	3.3327	0.0000	139.7111
Water						0.0000	0.0000		0.0000	0.0000	5.8832	16.0534	21.9366	0.0217	0.0130	26.3459
<b>Total</b>	<b>1.7016</b>	<b>1.1312</b>	<b>7.1574</b>	<b>0.0148</b>	<b>1.6266</b>	<b>0.0280</b>	<b>1.6546</b>	<b>0.4346</b>	<b>0.0274</b>	<b>0.4620</b>	<b>62.2761</b>	<b>1,908.6140</b>	<b>1,970.8901</b>	<b>3.4862</b>	<b>0.0893</b>	<b>2,084.6668</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8270	1.2000e-004	0.0137	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0268	0.0268	7.0000e-005	0.0000	0.0286
Energy	0.0263	0.2388	0.2006	1.4300e-003		0.0182	0.0182		0.0182	0.0182	0.0000	581.6787	581.6787	0.0346	8.3600e-003	585.0362
Mobile	0.8483	0.8923	6.9431	0.0134	1.6266	9.8000e-003	1.6364	0.4346	9.1500e-003	0.4438	0.0000	1,310.8550	1,310.8550	0.0970	0.0680	1,333.5451
Waste						0.0000	0.0000		0.0000	0.0000	56.3929	0.0000	56.3929	3.3327	0.0000	139.7111
Water						0.0000	0.0000		0.0000	0.0000	5.8832	16.0534	21.9366	0.0217	0.0130	26.3459
<b>Total</b>	<b>1.7016</b>	<b>1.1312</b>	<b>7.1574</b>	<b>0.0148</b>	<b>1.6266</b>	<b>0.0280</b>	<b>1.6546</b>	<b>0.4346</b>	<b>0.0274</b>	<b>0.4620</b>	<b>62.2761</b>	<b>1,908.6140</b>	<b>1,970.8901</b>	<b>3.4862</b>	<b>0.0893</b>	<b>2,084.6668</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>

**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	2/19/2029	3/9/2029	5	15	
2	Site Preparation	Site Preparation	3/12/2029	3/23/2029	5	10	
3	Grading	Grading	3/27/2029	4/16/2029	5	15	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Building Construction	Building Construction	4/16/2029	6/17/2030	5	306
5	Paving	Paving	6/18/2030	7/24/2030	5	27
6	Architectural Coating	Architectural Coating	7/25/2030	8/30/2030	5	27

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 15**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 283,500; Non-Residential Outdoor: 94,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Architectural Coating	Air Compressors	1	6.00	78	0.48
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	150.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	100.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	160.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	31.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 2029**

**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	0.0157	0.1440	0.1456	2.9000e-004		6.4000e-003	6.4000e-003		5.9400e-003	5.9400e-003	0.0000	25.4982	25.4982	7.1200e-003	0.0000	25.6762
<b>Total</b>	<b>0.0157</b>	<b>0.1440</b>	<b>0.1456</b>	<b>2.9000e-004</b>		<b>6.4000e-003</b>	<b>6.4000e-003</b>		<b>5.9400e-003</b>	<b>5.9400e-003</b>	<b>0.0000</b>	<b>25.4982</b>	<b>25.4982</b>	<b>7.1200e-003</b>	<b>0.0000</b>	<b>25.6762</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	0.0103	2.4200e-003	4.0000e-005	1.2700e-003	8.0000e-005	1.3400e-003	3.5000e-004	7.0000e-005	4.2000e-004	0.0000	4.0978	4.0978	1.7000e-004	6.5000e-004	4.2957
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.1000e-004	1.8600e-003	1.0000e-005	8.3000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5784	0.5784	1.0000e-005	1.0000e-005	0.5827
<b>Total</b>	<b>4.0000e-004</b>	<b>0.0104</b>	<b>4.2800e-003</b>	<b>5.0000e-005</b>	<b>2.1000e-003</b>	<b>8.0000e-005</b>	<b>2.1700e-003</b>	<b>5.7000e-004</b>	<b>7.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>4.6762</b>	<b>4.6762</b>	<b>1.8000e-004</b>	<b>6.6000e-004</b>	<b>4.8784</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	3.4700e-003	0.0150	0.1746	2.9000e-004		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	25.4982	25.4982	7.1200e-003	0.0000	25.6762
<b>Total</b>	<b>3.4700e-003</b>	<b>0.0150</b>	<b>0.1746</b>	<b>2.9000e-004</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>25.4982</b>	<b>25.4982</b>	<b>7.1200e-003</b>	<b>0.0000</b>	<b>25.6762</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	0.0103	2.4200e-003	4.0000e-005	1.2700e-003	8.0000e-005	1.3400e-003	3.5000e-004	7.0000e-005	4.2000e-004	0.0000	4.0978	4.0978	1.7000e-004	6.5000e-004	4.2957
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.1000e-004	1.8600e-003	1.0000e-005	8.3000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5784	0.5784	1.0000e-005	1.0000e-005	0.5827
<b>Total</b>	<b>4.0000e-004</b>	<b>0.0104</b>	<b>4.2800e-003</b>	<b>5.0000e-005</b>	<b>2.1000e-003</b>	<b>8.0000e-005</b>	<b>2.1700e-003</b>	<b>5.7000e-004</b>	<b>7.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>4.6762</b>	<b>4.6762</b>	<b>1.8000e-004</b>	<b>6.6000e-004</b>	<b>4.8784</b>

**3.3 Site Preparation - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1262	0.0896	1.9000e-004		5.4300e-003	5.4300e-003		5.0000e-003	5.0000e-003	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688
<b>Total</b>	<b>0.0124</b>	<b>0.1262</b>	<b>0.0896</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>5.4300e-003</b>	<b>0.1037</b>	<b>0.0505</b>	<b>5.0000e-003</b>	<b>0.0555</b>	<b>0.0000</b>	<b>16.7335</b>	<b>16.7335</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8688</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	6.8400e-003	1.6200e-003	3.0000e-005	8.4000e-004	5.0000e-005	9.0000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	2.7319	2.7319	1.1000e-004	4.3000e-004	2.8638
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-004	9.0000e-005	1.4900e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4627	0.4627	1.0000e-005	1.0000e-005	0.4662
<b>Total</b>	<b>3.0000e-004</b>	<b>6.9300e-003</b>	<b>3.1100e-003</b>	<b>3.0000e-005</b>	<b>1.5000e-003</b>	<b>5.0000e-005</b>	<b>1.5600e-003</b>	<b>4.1000e-004</b>	<b>5.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>3.1946</b>	<b>3.1946</b>	<b>1.2000e-004</b>	<b>4.4000e-004</b>	<b>3.3299</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					0.0442	0.0000	0.0442	0.0227	0.0000	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688
<b>Total</b>	<b>2.3300e-003</b>	<b>0.0101</b>	<b>0.1043</b>	<b>1.9000e-004</b>	<b>0.0442</b>	<b>3.1000e-004</b>	<b>0.0445</b>	<b>0.0227</b>	<b>3.1000e-004</b>	<b>0.0230</b>	<b>0.0000</b>	<b>16.7335</b>	<b>16.7335</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8688</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	6.8400e-003	1.6200e-003	3.0000e-005	8.4000e-004	5.0000e-005	9.0000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	2.7319	2.7319	1.1000e-004	4.3000e-004	2.8638
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-004	9.0000e-005	1.4900e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4627	0.4627	1.0000e-005	1.0000e-005	0.4662
<b>Total</b>	<b>3.0000e-004</b>	<b>6.9300e-003</b>	<b>3.1100e-003</b>	<b>3.0000e-005</b>	<b>1.5000e-003</b>	<b>5.0000e-005</b>	<b>1.5600e-003</b>	<b>4.1000e-004</b>	<b>5.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>3.1946</b>	<b>3.1946</b>	<b>1.2000e-004</b>	<b>4.4000e-004</b>	<b>3.3299</b>

**3.4 Grading - 2029**

**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					0.0531	0.0000	0.0531	0.0257	0.0000	0.0257	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1149	0.1091	2.2000e-004		4.6800e-003	4.6800e-003		4.3000e-003	4.3000e-003	0.0000	19.5524	19.5524	6.3200e-003	0.0000	19.7105
<b>Total</b>	<b>0.0114</b>	<b>0.1149</b>	<b>0.1091</b>	<b>2.2000e-004</b>	<b>0.0531</b>	<b>4.6800e-003</b>	<b>0.0578</b>	<b>0.0257</b>	<b>4.3000e-003</b>	<b>0.0300</b>	<b>0.0000</b>	<b>19.5524</b>	<b>19.5524</b>	<b>6.3200e-003</b>	<b>0.0000</b>	<b>19.7105</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9000e-004	0.0110	2.5900e-003	4.0000e-005	1.3500e-003	8.0000e-005	1.4300e-003	3.7000e-004	8.0000e-005	4.5000e-004	0.0000	4.3710	4.3710	1.8000e-004	6.9000e-004	4.5821
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.1000e-004	1.8600e-003	1.0000e-005	8.3000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5784	0.5784	1.0000e-005	1.0000e-005	0.5827
<b>Total</b>	<b>4.2000e-004</b>	<b>0.0111</b>	<b>4.4500e-003</b>	<b>5.0000e-005</b>	<b>2.1800e-003</b>	<b>8.0000e-005</b>	<b>2.2600e-003</b>	<b>5.9000e-004</b>	<b>8.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>4.9494</b>	<b>4.9494</b>	<b>1.9000e-004</b>	<b>7.0000e-004</b>	<b>5.1647</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					0.0239	0.0000	0.0239	0.0116	0.0000	0.0116	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7200e-003	0.0118	0.1332	2.2000e-004		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	19.5523	19.5523	6.3200e-003	0.0000	19.7104
<b>Total</b>	<b>2.7200e-003</b>	<b>0.0118</b>	<b>0.1332</b>	<b>2.2000e-004</b>	<b>0.0239</b>	<b>3.6000e-004</b>	<b>0.0243</b>	<b>0.0116</b>	<b>3.6000e-004</b>	<b>0.0119</b>	<b>0.0000</b>	<b>19.5523</b>	<b>19.5523</b>	<b>6.3200e-003</b>	<b>0.0000</b>	<b>19.7104</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9000e-004	0.0110	2.5900e-003	4.0000e-005	1.3500e-003	8.0000e-005	1.4300e-003	3.7000e-004	8.0000e-005	4.5000e-004	0.0000	4.3710	4.3710	1.8000e-004	6.9000e-004	4.5821
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.1000e-004	1.8600e-003	1.0000e-005	8.3000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5784	0.5784	1.0000e-005	1.0000e-005	0.5827
<b>Total</b>	<b>4.2000e-004</b>	<b>0.0111</b>	<b>4.4500e-003</b>	<b>5.0000e-005</b>	<b>2.1800e-003</b>	<b>8.0000e-005</b>	<b>2.2600e-003</b>	<b>5.9000e-004</b>	<b>8.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>4.9494</b>	<b>4.9494</b>	<b>1.9000e-004</b>	<b>7.0000e-004</b>	<b>5.1647</b>

**3.5 Building Construction - 2029**

**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	0.1272	1.1597	1.4959	2.5100e-003		0.0491	0.0491		0.0462	0.0462	0.0000	215.6851	215.6851	0.0507	0.0000	216.9526
<b>Total</b>	<b>0.1272</b>	<b>1.1597</b>	<b>1.4959</b>	<b>2.5100e-003</b>		<b>0.0491</b>	<b>0.0491</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>215.6851</b>	<b>215.6851</b>	<b>0.0507</b>	<b>0.0000</b>	<b>216.9526</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0500e-003	0.1257	0.0376	4.9000e-004	0.0169	6.6000e-004	0.0175	4.8700e-003	6.3000e-004	5.5100e-003	0.0000	47.3213	47.3213	1.1500e-003	7.0200e-003	49.4418
Worker	0.0144	7.1900e-003	0.1184	3.8000e-004	0.0526	2.0000e-004	0.0528	0.0140	1.9000e-004	0.0142	0.0000	36.8145	36.8145	7.8000e-004	8.6000e-004	37.0901
<b>Total</b>	<b>0.0174</b>	<b>0.1329</b>	<b>0.1560</b>	<b>8.7000e-004</b>	<b>0.0695</b>	<b>8.6000e-004</b>	<b>0.0703</b>	<b>0.0189</b>	<b>8.2000e-004</b>	<b>0.0197</b>	<b>0.0000</b>	<b>84.1358</b>	<b>84.1358</b>	<b>1.9300e-003</b>	<b>7.8800e-003</b>	<b>86.5319</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	0.0305	0.2078	1.6238	2.5100e-003		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	215.6848	215.6848	0.0507	0.0000	216.9524
<b>Total</b>	<b>0.0305</b>	<b>0.2078</b>	<b>1.6238</b>	<b>2.5100e-003</b>		<b>3.7900e-003</b>	<b>3.7900e-003</b>		<b>3.7900e-003</b>	<b>3.7900e-003</b>	<b>0.0000</b>	<b>215.6848</b>	<b>215.6848</b>	<b>0.0507</b>	<b>0.0000</b>	<b>216.9524</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0500e-003	0.1257	0.0376	4.9000e-004	0.0169	6.6000e-004	0.0175	4.8700e-003	6.3000e-004	5.5100e-003	0.0000	47.3213	47.3213	1.1500e-003	7.0200e-003	49.4418
Worker	0.0144	7.1900e-003	0.1184	3.8000e-004	0.0526	2.0000e-004	0.0528	0.0140	1.9000e-004	0.0142	0.0000	36.8145	36.8145	7.8000e-004	8.6000e-004	37.0901
<b>Total</b>	<b>0.0174</b>	<b>0.1329</b>	<b>0.1560</b>	<b>8.7000e-004</b>	<b>0.0695</b>	<b>8.6000e-004</b>	<b>0.0703</b>	<b>0.0189</b>	<b>8.2000e-004</b>	<b>0.0197</b>	<b>0.0000</b>	<b>84.1358</b>	<b>84.1358</b>	<b>1.9300e-003</b>	<b>7.8800e-003</b>	<b>86.5319</b>

**3.5 Building Construction - 2030**

**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	0.0786	0.4761	0.9694	1.8600e-003		8.8900e-003	8.8900e-003		8.8900e-003	8.8900e-003	0.0000	157.7166	157.7166	6.3300e-003	0.0000	157.8748
<b>Total</b>	<b>0.0786</b>	<b>0.4761</b>	<b>0.9694</b>	<b>1.8600e-003</b>		<b>8.8900e-003</b>	<b>8.8900e-003</b>		<b>8.8900e-003</b>	<b>8.8900e-003</b>	<b>0.0000</b>	<b>157.7166</b>	<b>157.7166</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>157.8748</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.9200e-003	0.0799	0.0240	3.1000e-004	0.0109	4.2000e-004	0.0113	3.1400e-003	4.0000e-004	3.5400e-003	0.0000	29.9686	29.9686	7.3000e-004	4.4500e-003	31.3133
Worker	8.7400e-003	4.3400e-003	0.0735	2.4000e-004	0.0339	1.2000e-004	0.0341	9.0200e-003	1.1000e-004	9.1400e-003	0.0000	23.3491	23.3491	4.7000e-004	5.4000e-004	23.5203
<b>Total</b>	<b>0.0107</b>	<b>0.0843</b>	<b>0.0975</b>	<b>5.5000e-004</b>	<b>0.0448</b>	<b>5.4000e-004</b>	<b>0.0454</b>	<b>0.0122</b>	<b>5.1000e-004</b>	<b>0.0127</b>	<b>0.0000</b>	<b>53.3177</b>	<b>53.3177</b>	<b>1.2000e-003</b>	<b>4.9900e-003</b>	<b>54.8336</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	0.0197	0.1341	1.0476	1.8600e-003		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	157.7164	157.7164	6.3300e-003	0.0000	157.8746
<b>Total</b>	<b>0.0197</b>	<b>0.1341</b>	<b>1.0476</b>	<b>1.8600e-003</b>		<b>2.4500e-003</b>	<b>2.4500e-003</b>		<b>2.4500e-003</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>157.7164</b>	<b>157.7164</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>157.8746</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.9200e-003	0.0799	0.0240	3.1000e-004	0.0109	4.2000e-004	0.0113	3.1400e-003	4.0000e-004	3.5400e-003	0.0000	29.9686	29.9686	7.3000e-004	4.4500e-003	31.3133
Worker	8.7400e-003	4.3400e-003	0.0735	2.4000e-004	0.0339	1.2000e-004	0.0341	9.0200e-003	1.1000e-004	9.1400e-003	0.0000	23.3491	23.3491	4.7000e-004	5.4000e-004	23.5203
<b>Total</b>	<b>0.0107</b>	<b>0.0843</b>	<b>0.0975</b>	<b>5.5000e-004</b>	<b>0.0448</b>	<b>5.4000e-004</b>	<b>0.0454</b>	<b>0.0122</b>	<b>5.1000e-004</b>	<b>0.0127</b>	<b>0.0000</b>	<b>53.3177</b>	<b>53.3177</b>	<b>1.2000e-003</b>	<b>4.9900e-003</b>	<b>54.8336</b>

**3.6 Paving - 2030**

**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	0.0187	0.0961	0.2140	3.8000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	32.5343	32.5343	1.5300e-003	0.0000	32.5725
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>0.0187</b>	<b>0.0961</b>	<b>0.2140</b>	<b>3.8000e-004</b>		<b>4.4600e-003</b>	<b>4.4600e-003</b>		<b>4.4600e-003</b>	<b>4.4600e-003</b>	<b>0.0000</b>	<b>32.5343</b>	<b>32.5343</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>32.5725</b>

Innovation Park CNU Phase 3B - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**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	3.8000e-004	1.9000e-004	3.2200e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	1.0234	1.0234	2.0000e-005	2.0000e-005	1.0309
<b>Total</b>	<b>3.8000e-004</b>	<b>1.9000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.0234</b>	<b>1.0234</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0309</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	3.7900e-003	0.0164	0.2335	3.8000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	32.5343	32.5343	1.5300e-003	0.0000	32.5724
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>3.7900e-003</b>	<b>0.0164</b>	<b>0.2335</b>	<b>3.8000e-004</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>32.5343</b>	<b>32.5343</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>32.5724</b>



Innovation Park CNU Phase 3B - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

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	3.8000e-004	1.9000e-004	3.2200e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	1.0234	1.0234	2.0000e-005	2.0000e-005	1.0309
<b>Total</b>	<b>3.8000e-004</b>	<b>1.9000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.0234</b>	<b>1.0234</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0309</b>

**3.7 Architectural Coating - 2030**

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	0.8760					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7700e-003	0.0116	0.0243	4.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.4469	3.4469	1.4000e-004	0.0000	3.4504
<b>Total</b>	<b>0.8778</b>	<b>0.0116</b>	<b>0.0243</b>	<b>4.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>3.4469</b>	<b>3.4469</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>3.4504</b>

Innovation Park CNU Phase 3B - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	3.8000e-004	1.9000e-004	3.2200e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	1.0234	1.0234	2.0000e-005	2.0000e-005	1.0309
<b>Total</b>	<b>3.8000e-004</b>	<b>1.9000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.0234</b>	<b>1.0234</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0309</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	0.8760					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-004	1.7400e-003	0.0247	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.4469	3.4469	1.4000e-004	0.0000	3.4504
<b>Total</b>	<b>0.8764</b>	<b>1.7400e-003</b>	<b>0.0247</b>	<b>4.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>3.4469</b>	<b>3.4469</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>3.4504</b>

Innovation Park CNU Phase 3B - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	3.8000e-004	1.9000e-004	3.2200e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	1.0234	1.0234	2.0000e-005	2.0000e-005	1.0309
<b>Total</b>	<b>3.8000e-004</b>	<b>1.9000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.0234</b>	<b>1.0234</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0309</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Innovation Park CNU Phase 3C - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3C**

**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	48.00	1000sqft	1.10	48,000.00	0
Enclosed Parking Structure	127.00	Space	1.14	48,000.00	0
Apartments Mid Rise	250.00	Dwelling Unit	6.58	114,000.00	668

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2031
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - Dorm/Facility BLDG 2 Construction ONLY

Land Use - Residential buildings 2

Construction Phase - Adjusted Scheduled

Trips and VMT - 15 trucks/year for demo, site prep, and grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Innovation Park CNU Phase 3C - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	230.00	307.00
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	20.00	26.00
tblLandUse	LandUseSquareFeet	50,800.00	48,000.00
tblLandUse	LandUseSquareFeet	250,000.00	114,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	225.00
tblTripsAndVMT	HaulingTripNumber	0.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3C - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.2067	1.1748	2.2368	5.6400e-003	0.3338	0.0223	0.3561	0.1261	0.0222	0.1482	0.0000	503.9725	503.9725	0.0175	0.0144	508.6959
2031	1.0321	0.7019	1.4488	3.3700e-003	0.1154	0.0145	0.1299	0.0310	0.0145	0.0455	0.0000	301.5446	301.5446	0.0103	7.4800e-003	304.0287
<b>Maximum</b>	<b>1.0321</b>	<b>1.1748</b>	<b>2.2368</b>	<b>5.6400e-003</b>	<b>0.3338</b>	<b>0.0223</b>	<b>0.3561</b>	<b>0.1261</b>	<b>0.0222</b>	<b>0.1482</b>	<b>0.0000</b>	<b>503.9725</b>	<b>503.9725</b>	<b>0.0175</b>	<b>0.0144</b>	<b>508.6959</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	tons/yr										MT/yr					
2030	0.2067	1.1748	2.2368	5.6400e-003	0.2486	0.0223	0.2709	0.0832	0.0222	0.1054	0.0000	503.9721	503.9721	0.0175	0.0144	508.6955
2031	1.0321	0.7019	1.4488	3.3700e-003	0.1154	0.0145	0.1299	0.0310	0.0145	0.0455	0.0000	301.5443	301.5443	0.0103	7.4800e-003	304.0285
<b>Maximum</b>	<b>1.0321</b>	<b>1.1748</b>	<b>2.2368</b>	<b>5.6400e-003</b>	<b>0.2486</b>	<b>0.0223</b>	<b>0.2709</b>	<b>0.0832</b>	<b>0.0222</b>	<b>0.1054</b>	<b>0.0000</b>	<b>503.9721</b>	<b>503.9721</b>	<b>0.0175</b>	<b>0.0144</b>	<b>508.6955</b>

Innovation Park CNU Phase 3C - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	18.97	0.00	17.54	27.28	0.00	22.12	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-18-2030	5-17-2030	0.4002	0.4002
2	5-18-2030	8-17-2030	0.3833	0.3833
3	8-18-2030	11-17-2030	0.3854	0.3854
4	11-18-2030	2-17-2031	0.3862	0.3862
5	2-18-2031	5-17-2031	0.3707	0.3707
6	5-18-2031	8-17-2031	0.8724	0.8724
7	8-18-2031	9-30-2031	0.2892	0.2892
		Highest	0.8724	0.8724

Innovation Park CNU Phase 3C - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8072	0.0297	2.5736	1.4000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	4.2157	4.2157	4.0200e-003	0.0000	4.3163
Energy	0.0161	0.1390	0.0718	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	466.1888	466.1888	0.0314	6.3500e-003	468.8645
Mobile	0.5993	0.7056	5.5905	0.0119	1.4989	8.1200e-003	1.5070	0.4005	7.5800e-003	0.4080	0.0000	1,169.4394	1,169.4394	0.0759	0.0550	1,187.7345
Waste						0.0000	0.0000		0.0000	0.0000	32.4055	0.0000	32.4055	1.9151	0.0000	80.2832
Water						0.0000	0.0000		0.0000	0.0000	8.7813	28.8883	37.6695	0.0329	0.0194	44.2786
<b>Total</b>	<b>1.4225</b>	<b>0.8743</b>	<b>8.2359</b>	<b>0.0129</b>	<b>1.4989</b>	<b>0.0335</b>	<b>1.5324</b>	<b>0.4005</b>	<b>0.0330</b>	<b>0.4334</b>	<b>41.1867</b>	<b>1,668.7323</b>	<b>1,709.9190</b>	<b>2.0593</b>	<b>0.0808</b>	<b>1,785.4771</b>



Innovation Park CNU Phase 3C - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8072	0.0297	2.5736	1.4000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	4.2157	4.2157	4.0200e-003	0.0000	4.3163
Energy	0.0161	0.1390	0.0718	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	466.1888	466.1888	0.0314	6.3500e-003	468.8645
Mobile	0.5993	0.7056	5.5905	0.0119	1.4989	8.1200e-003	1.5070	0.4005	7.5800e-003	0.4080	0.0000	1,169.4394	1,169.4394	0.0759	0.0550	1,187.7345
Waste						0.0000	0.0000		0.0000	0.0000	32.4055	0.0000	32.4055	1.9151	0.0000	80.2832
Water						0.0000	0.0000		0.0000	0.0000	8.7813	28.8883	37.6695	0.0329	0.0194	44.2786
<b>Total</b>	<b>1.4225</b>	<b>0.8743</b>	<b>8.2359</b>	<b>0.0129</b>	<b>1.4989</b>	<b>0.0335</b>	<b>1.5324</b>	<b>0.4005</b>	<b>0.0330</b>	<b>0.4334</b>	<b>41.1867</b>	<b>1,668.7323</b>	<b>1,709.9190</b>	<b>2.0593</b>	<b>0.0808</b>	<b>1,785.4771</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>

**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	2/18/2030	3/8/2030	5	15	
2	Site Preparation	Site Preparation	3/11/2030	3/22/2030	5	10	
3	Grading	Grading	3/25/2030	4/15/2030	5	16	

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4	Building Construction	Building Construction	4/15/2030	6/17/2031	5	307
5	Paving	Paving	6/18/2031	7/24/2031	5	27
6	Architectural Coating	Architectural Coating	7/25/2031	8/28/2031	5	26

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 16**

**Acres of Paving: 1.14**

**Residential Indoor: 230,850; Residential Outdoor: 76,950; Non-Residential Indoor: 72,000; Non-Residential Outdoor: 24,000; Striped Parking Area: 2,880 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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Architectural Coating	Air Compressors	1	6.00	78	0.48
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	225.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	150.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	216.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	43.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Water Exposed Area

**3.2 Demolition - 2030**

**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	0.0156	0.0733	0.1419	3.5000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003	0.0000	29.7914	29.7914	1.2600e-003	0.0000	29.8228
<b>Total</b>	<b>0.0156</b>	<b>0.0733</b>	<b>0.1419</b>	<b>3.5000e-004</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>29.7914</b>	<b>29.7914</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>29.8228</b>

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**3.2 Demolition - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	0.0151	3.6400e-003	6.0000e-005	1.9000e-003	1.1000e-004	2.0100e-003	5.2000e-004	1.1000e-004	6.3000e-004	0.0000	6.0252	6.0252	2.4000e-004	9.6000e-004	6.3161
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	2.1000e-004	1.1000e-004	1.7900e-003	1.0000e-005	8.3000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5686	0.5686	1.0000e-005	1.0000e-005	0.5727
<b>Total</b>	<b>4.6000e-004</b>	<b>0.0152</b>	<b>5.4300e-003</b>	<b>7.0000e-005</b>	<b>2.7300e-003</b>	<b>1.1000e-004</b>	<b>2.8400e-003</b>	<b>7.4000e-004</b>	<b>1.1000e-004</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>6.5938</b>	<b>6.5938</b>	<b>2.5000e-004</b>	<b>9.7000e-004</b>	<b>6.8889</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	0.0156	0.0733	0.1419	3.5000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003	0.0000	29.7913	29.7913	1.2600e-003	0.0000	29.8228
<b>Total</b>	<b>0.0156</b>	<b>0.0733</b>	<b>0.1419</b>	<b>3.5000e-004</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>29.7913</b>	<b>29.7913</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>29.8228</b>

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**3.2 Demolition - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	0.0151	3.6400e-003	6.0000e-005	1.9000e-003	1.1000e-004	2.0100e-003	5.2000e-004	1.1000e-004	6.3000e-004	0.0000	6.0252	6.0252	2.4000e-004	9.6000e-004	6.3161
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	2.1000e-004	1.1000e-004	1.7900e-003	1.0000e-005	8.3000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5686	0.5686	1.0000e-005	1.0000e-005	0.5727
<b>Total</b>	<b>4.6000e-004</b>	<b>0.0152</b>	<b>5.4300e-003</b>	<b>7.0000e-005</b>	<b>2.7300e-003</b>	<b>1.1000e-004</b>	<b>2.8400e-003</b>	<b>7.4000e-004</b>	<b>1.1000e-004</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>6.5938</b>	<b>6.5938</b>	<b>2.5000e-004</b>	<b>9.7000e-004</b>	<b>6.8889</b>

**3.3 Site Preparation - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0683	0.0815	2.3000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	20.0023	20.0023	9.9000e-004	0.0000	20.0270
<b>Total</b>	<b>0.0122</b>	<b>0.0683</b>	<b>0.0815</b>	<b>2.3000e-004</b>	<b>0.0983</b>	<b>2.1800e-003</b>	<b>0.1005</b>	<b>0.0505</b>	<b>2.1800e-003</b>	<b>0.0527</b>	<b>0.0000</b>	<b>20.0023</b>	<b>20.0023</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>20.0270</b>

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**3.3 Site Preparation - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	0.0101	2.4300e-003	4.0000e-005	1.2700e-003	8.0000e-005	1.3400e-003	3.5000e-004	7.0000e-005	4.2000e-004	0.0000	4.0168	4.0168	1.6000e-004	6.4000e-004	4.2108
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	1.7000e-004	8.0000e-005	1.4300e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4549	0.4549	1.0000e-005	1.0000e-005	0.4582
<b>Total</b>	<b>3.4000e-004</b>	<b>0.0101</b>	<b>3.8600e-003</b>	<b>4.0000e-005</b>	<b>1.9300e-003</b>	<b>8.0000e-005</b>	<b>2.0000e-003</b>	<b>5.3000e-004</b>	<b>7.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>4.4716</b>	<b>4.4716</b>	<b>1.7000e-004</b>	<b>6.5000e-004</b>	<b>4.6690</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					0.0442	0.0000	0.0442	0.0227	0.0000	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0683	0.0815	2.3000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	20.0023	20.0023	9.9000e-004	0.0000	20.0270
<b>Total</b>	<b>0.0122</b>	<b>0.0683</b>	<b>0.0815</b>	<b>2.3000e-004</b>	<b>0.0442</b>	<b>2.1800e-003</b>	<b>0.0464</b>	<b>0.0227</b>	<b>2.1800e-003</b>	<b>0.0249</b>	<b>0.0000</b>	<b>20.0023</b>	<b>20.0023</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>20.0270</b>

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**3.3 Site Preparation - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	0.0101	2.4300e-003	4.0000e-005	1.2700e-003	8.0000e-005	1.3400e-003	3.5000e-004	7.0000e-005	4.2000e-004	0.0000	4.0168	4.0168	1.6000e-004	6.4000e-004	4.2108
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	1.7000e-004	8.0000e-005	1.4300e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4549	0.4549	1.0000e-005	1.0000e-005	0.4582
<b>Total</b>	<b>3.4000e-004</b>	<b>0.0101</b>	<b>3.8600e-003</b>	<b>4.0000e-005</b>	<b>1.9300e-003</b>	<b>8.0000e-005</b>	<b>2.0000e-003</b>	<b>5.3000e-004</b>	<b>7.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>4.4716</b>	<b>4.4716</b>	<b>1.7000e-004</b>	<b>6.5000e-004</b>	<b>4.6690</b>

**3.4 Grading - 2030**

**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					0.0567	0.0000	0.0567	0.0274	0.0000	0.0274	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0129	0.0620	0.1156	2.9000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	24.9637	24.9637	1.0400e-003	0.0000	24.9898
<b>Total</b>	<b>0.0129</b>	<b>0.0620</b>	<b>0.1156</b>	<b>2.9000e-004</b>	<b>0.0567</b>	<b>1.8700e-003</b>	<b>0.0585</b>	<b>0.0274</b>	<b>1.8700e-003</b>	<b>0.0293</b>	<b>0.0000</b>	<b>24.9637</b>	<b>24.9637</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>24.9898</b>

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**3.4 Grading - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7000e-004	0.0161	3.8800e-003	6.0000e-005	2.0300e-003	1.2000e-004	2.1500e-003	5.6000e-004	1.2000e-004	6.7000e-004	0.0000	6.4269	6.4269	2.6000e-004	1.0200e-003	6.7372
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.1000e-004	1.9100e-003	1.0000e-005	8.8000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6065	0.6065	1.0000e-005	1.0000e-005	0.6109
<b>Total</b>	<b>5.0000e-004</b>	<b>0.0162</b>	<b>5.7900e-003</b>	<b>7.0000e-005</b>	<b>2.9100e-003</b>	<b>1.2000e-004</b>	<b>3.0300e-003</b>	<b>7.9000e-004</b>	<b>1.2000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>7.0333</b>	<b>7.0333</b>	<b>2.7000e-004</b>	<b>1.0300e-003</b>	<b>7.3481</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					0.0255	0.0000	0.0255	0.0123	0.0000	0.0123	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0129	0.0620	0.1156	2.9000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	24.9637	24.9637	1.0400e-003	0.0000	24.9897
<b>Total</b>	<b>0.0129</b>	<b>0.0620</b>	<b>0.1156</b>	<b>2.9000e-004</b>	<b>0.0255</b>	<b>1.8700e-003</b>	<b>0.0274</b>	<b>0.0123</b>	<b>1.8700e-003</b>	<b>0.0142</b>	<b>0.0000</b>	<b>24.9637</b>	<b>24.9637</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>24.9897</b>



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**3.4 Grading - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7000e-004	0.0161	3.8800e-003	6.0000e-005	2.0300e-003	1.2000e-004	2.1500e-003	5.6000e-004	1.2000e-004	6.7000e-004	0.0000	6.4269	6.4269	2.6000e-004	1.0200e-003	6.7372
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.1000e-004	1.9100e-003	1.0000e-005	8.8000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6065	0.6065	1.0000e-005	1.0000e-005	0.6109
<b>Total</b>	<b>5.0000e-004</b>	<b>0.0162</b>	<b>5.7900e-003</b>	<b>7.0000e-005</b>	<b>2.9100e-003</b>	<b>1.2000e-004</b>	<b>3.0300e-003</b>	<b>7.9000e-004</b>	<b>1.2000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>7.0333</b>	<b>7.0333</b>	<b>2.7000e-004</b>	<b>1.0300e-003</b>	<b>7.3481</b>

**3.5 Building Construction - 2030**

**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	0.1224	0.7419	1.5107	2.8900e-003		0.0139	0.0139		0.0139	0.0139	0.0000	245.7751	245.7751	9.8600e-003	0.0000	246.0216
<b>Total</b>	<b>0.1224</b>	<b>0.7419</b>	<b>1.5107</b>	<b>2.8900e-003</b>		<b>0.0139</b>	<b>0.0139</b>		<b>0.0139</b>	<b>0.0139</b>	<b>0.0000</b>	<b>245.7751</b>	<b>245.7751</b>	<b>9.8600e-003</b>	<b>0.0000</b>	<b>246.0216</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	4.0500e-003	0.1687	0.0507	6.5000e-004	0.0230	8.8000e-004	0.0239	6.6400e-003	8.4000e-004	7.4800e-003	0.0000	63.2725	63.2725	1.5400e-003	9.4000e-003	66.1115
Worker	0.0382	0.0190	0.3214	1.0400e-003	0.1483	5.4000e-004	0.1489	0.0395	4.9000e-004	0.0399	0.0000	102.0689	102.0689	2.0500e-003	2.3400e-003	102.8173
<b>Total</b>	<b>0.0423</b>	<b>0.1877</b>	<b>0.3721</b>	<b>1.6900e-003</b>	<b>0.1713</b>	<b>1.4200e-003</b>	<b>0.1727</b>	<b>0.0461</b>	<b>1.3300e-003</b>	<b>0.0474</b>	<b>0.0000</b>	<b>165.3414</b>	<b>165.3414</b>	<b>3.5900e-003</b>	<b>0.0117</b>	<b>168.9288</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	0.1224	0.7419	1.5107	2.8900e-003		0.0139	0.0139		0.0139	0.0139	0.0000	245.7748	245.7748	9.8600e-003	0.0000	246.0213
<b>Total</b>	<b>0.1224</b>	<b>0.7419</b>	<b>1.5107</b>	<b>2.8900e-003</b>		<b>0.0139</b>	<b>0.0139</b>		<b>0.0139</b>	<b>0.0139</b>	<b>0.0000</b>	<b>245.7748</b>	<b>245.7748</b>	<b>9.8600e-003</b>	<b>0.0000</b>	<b>246.0213</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	4.0500e-003	0.1687	0.0507	6.5000e-004	0.0230	8.8000e-004	0.0239	6.6400e-003	8.4000e-004	7.4800e-003	0.0000	63.2725	63.2725	1.5400e-003	9.4000e-003	66.1115
Worker	0.0382	0.0190	0.3214	1.0400e-003	0.1483	5.4000e-004	0.1489	0.0395	4.9000e-004	0.0399	0.0000	102.0689	102.0689	2.0500e-003	2.3400e-003	102.8173
<b>Total</b>	<b>0.0423</b>	<b>0.1877</b>	<b>0.3721</b>	<b>1.6900e-003</b>	<b>0.1713</b>	<b>1.4200e-003</b>	<b>0.1727</b>	<b>0.0461</b>	<b>1.3300e-003</b>	<b>0.0474</b>	<b>0.0000</b>	<b>165.3414</b>	<b>165.3414</b>	<b>3.5900e-003</b>	<b>0.0117</b>	<b>168.9288</b>

**3.5 Building Construction - 2031**

**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	0.0786	0.4761	0.9694	1.8600e-003		8.8900e-003	8.8900e-003		8.8900e-003	8.8900e-003	0.0000	157.7166	157.7166	6.3300e-003	0.0000	157.8748
<b>Total</b>	<b>0.0786</b>	<b>0.4761</b>	<b>0.9694</b>	<b>1.8600e-003</b>		<b>8.8900e-003</b>	<b>8.8900e-003</b>		<b>8.8900e-003</b>	<b>8.8900e-003</b>	<b>0.0000</b>	<b>157.7166</b>	<b>157.7166</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>157.8748</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	2.5400e-003	0.1069	0.0323	4.1000e-004	0.0147	5.5000e-004	0.0153	4.2600e-003	5.3000e-004	4.7900e-003	0.0000	39.9232	39.9232	9.7000e-004	5.9400e-003	41.7168
Worker	0.0231	0.0115	0.1993	6.5000e-004	0.0952	3.2000e-004	0.0955	0.0253	3.0000e-004	0.0256	0.0000	64.4962	64.4962	1.2300e-003	1.4600e-003	64.9607
<b>Total</b>	<b>0.0257</b>	<b>0.1184</b>	<b>0.2316</b>	<b>1.0600e-003</b>	<b>0.1099</b>	<b>8.7000e-004</b>	<b>0.1108</b>	<b>0.0296</b>	<b>8.3000e-004</b>	<b>0.0304</b>	<b>0.0000</b>	<b>104.4194</b>	<b>104.4194</b>	<b>2.2000e-003</b>	<b>7.4000e-003</b>	<b>106.6775</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	0.0786	0.4761	0.9694	1.8600e-003		8.8900e-003	8.8900e-003		8.8900e-003	8.8900e-003	0.0000	157.7164	157.7164	6.3300e-003	0.0000	157.8746
<b>Total</b>	<b>0.0786</b>	<b>0.4761</b>	<b>0.9694</b>	<b>1.8600e-003</b>		<b>8.8900e-003</b>	<b>8.8900e-003</b>		<b>8.8900e-003</b>	<b>8.8900e-003</b>	<b>0.0000</b>	<b>157.7164</b>	<b>157.7164</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>157.8746</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	2.5400e-003	0.1069	0.0323	4.1000e-004	0.0147	5.5000e-004	0.0153	4.2600e-003	5.3000e-004	4.7900e-003	0.0000	39.9232	39.9232	9.7000e-004	5.9400e-003	41.7168
Worker	0.0231	0.0115	0.1993	6.5000e-004	0.0952	3.2000e-004	0.0955	0.0253	3.0000e-004	0.0256	0.0000	64.4962	64.4962	1.2300e-003	1.4600e-003	64.9607
<b>Total</b>	<b>0.0257</b>	<b>0.1184</b>	<b>0.2316</b>	<b>1.0600e-003</b>	<b>0.1099</b>	<b>8.7000e-004</b>	<b>0.1108</b>	<b>0.0296</b>	<b>8.3000e-004</b>	<b>0.0304</b>	<b>0.0000</b>	<b>104.4194</b>	<b>104.4194</b>	<b>2.2000e-003</b>	<b>7.4000e-003</b>	<b>106.6775</b>

**3.6 Paving - 2031**

**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	0.0187	0.0961	0.2140	3.8000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	32.5343	32.5343	1.5300e-003	0.0000	32.5725
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>0.0187</b>	<b>0.0961</b>	<b>0.2140</b>	<b>3.8000e-004</b>		<b>4.4600e-003</b>	<b>4.4600e-003</b>		<b>4.4600e-003</b>	<b>4.4600e-003</b>	<b>0.0000</b>	<b>32.5343</b>	<b>32.5343</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>32.5725</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**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	1.8000e-004	3.1100e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	1.0078	1.0078	2.0000e-005	2.0000e-005	1.0150
<b>Total</b>	<b>3.6000e-004</b>	<b>1.8000e-004</b>	<b>3.1100e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.0078</b>	<b>1.0078</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0150</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	0.0187	0.0961	0.2140	3.8000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	32.5343	32.5343	1.5300e-003	0.0000	32.5724
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>0.0187</b>	<b>0.0961</b>	<b>0.2140</b>	<b>3.8000e-004</b>		<b>4.4600e-003</b>	<b>4.4600e-003</b>		<b>4.4600e-003</b>	<b>4.4600e-003</b>	<b>0.0000</b>	<b>32.5343</b>	<b>32.5343</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>32.5724</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**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	1.8000e-004	3.1100e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	1.0078	1.0078	2.0000e-005	2.0000e-005	1.0150
<b>Total</b>	<b>3.6000e-004</b>	<b>1.8000e-004</b>	<b>3.1100e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.0078</b>	<b>1.0078</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0150</b>

**3.7 Architectural Coating - 2031**

**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	0.9062					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0107	0.0225	4.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.1916	3.1916	1.3000e-004	0.0000	3.1948
<b>Total</b>	<b>0.9079</b>	<b>0.0107</b>	<b>0.0225</b>	<b>4.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.1916</b>	<b>3.1916</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.1948</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	9.6000e-004	4.7000e-004	8.2600e-003	3.0000e-005	3.9500e-003	1.0000e-005	3.9600e-003	1.0500e-003	1.0000e-005	1.0600e-003	0.0000	2.6749	2.6749	5.0000e-005	6.0000e-005	2.6942
<b>Total</b>	<b>9.6000e-004</b>	<b>4.7000e-004</b>	<b>8.2600e-003</b>	<b>3.0000e-005</b>	<b>3.9500e-003</b>	<b>1.0000e-005</b>	<b>3.9600e-003</b>	<b>1.0500e-003</b>	<b>1.0000e-005</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>2.6749</b>	<b>2.6749</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>2.6942</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	0.9062					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0107	0.0225	4.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.1916	3.1916	1.3000e-004	0.0000	3.1948
<b>Total</b>	<b>0.9079</b>	<b>0.0107</b>	<b>0.0225</b>	<b>4.0000e-005</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.1916</b>	<b>3.1916</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.1948</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	9.6000e-004	4.7000e-004	8.2600e-003	3.0000e-005	3.9500e-003	1.0000e-005	3.9600e-003	1.0500e-003	1.0000e-005	1.0600e-003	0.0000	2.6749	2.6749	5.0000e-005	6.0000e-005	2.6942
<b>Total</b>	<b>9.6000e-004</b>	<b>4.7000e-004</b>	<b>8.2600e-003</b>	<b>3.0000e-005</b>	<b>3.9500e-003</b>	<b>1.0000e-005</b>	<b>3.9600e-003</b>	<b>1.0500e-003</b>	<b>1.0000e-005</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>2.6749</b>	<b>2.6749</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>2.6942</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Innovation Park CNU Phase 3D - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3D  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Day-Care Center	15.00	1000sqft	0.34	15,000.00	0
Health Club	30.00	1000sqft	0.69	30,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2031
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Daycare and health club construction only

Land Use - Daycare and Health Club

Construction Phase - Adjusted Schedule

Trips and VMT - 20 haul trucks/day for demo, site prep, and grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	4.00	5.00
tblConstructionPhase	NumDays	200.00	225.00
tblConstructionPhase	NumDays	10.00	11.00
tblConstructionPhase	NumDays	10.00	11.00
tblTripsAndVMT	HaulingTripNumber	0.00	360.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tbITripsAndVMT	HaulingTripNumber	0.00	40.00
tbITripsAndVMT	HaulingTripNumber	0.00	100.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.0578	0.3992	0.6094	1.4300e-003	0.0359	7.5200e-003	0.0434	0.0148	7.5100e-003	0.0223	0.0000	122.0097	122.0097	5.2000e-003	2.8300e-003	122.9839
2031	0.2992	0.5991	1.0127	2.0800e-003	0.0144	0.0109	0.0253	3.9000e-003	0.0109	0.0148	0.0000	173.6397	173.6397	7.4200e-003	1.4300e-003	174.2501
<b>Maximum</b>	<b>0.2992</b>	<b>0.5991</b>	<b>1.0127</b>	<b>2.0800e-003</b>	<b>0.0359</b>	<b>0.0109</b>	<b>0.0434</b>	<b>0.0148</b>	<b>0.0109</b>	<b>0.0223</b>	<b>0.0000</b>	<b>173.6397</b>	<b>173.6397</b>	<b>7.4200e-003</b>	<b>2.8300e-003</b>	<b>174.2501</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	tons/yr										MT/yr					
2030	0.0165	0.1954	0.6722	1.4300e-003	0.0227	1.8900e-003	0.0246	8.4400e-003	1.8700e-003	0.0103	0.0000	122.0096	122.0096	5.2000e-003	2.8300e-003	122.9838
2031	0.2352	0.3106	1.0922	2.0800e-003	0.0144	2.6000e-003	0.0170	3.9000e-003	2.5900e-003	6.4900e-003	0.0000	173.6395	173.6395	7.4200e-003	1.4300e-003	174.2499
<b>Maximum</b>	<b>0.2352</b>	<b>0.3106</b>	<b>1.0922</b>	<b>2.0800e-003</b>	<b>0.0227</b>	<b>2.6000e-003</b>	<b>0.0246</b>	<b>8.4400e-003</b>	<b>2.5900e-003</b>	<b>0.0103</b>	<b>0.0000</b>	<b>173.6395</b>	<b>173.6395</b>	<b>7.4200e-003</b>	<b>2.8300e-003</b>	<b>174.2499</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	29.51	49.32	-8.77	0.00	26.21	75.58	39.44	34.01	75.72	54.68	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-19-2030	11-18-2030	0.3108	0.1387
2	11-19-2030	2-18-2031	0.2838	0.1437
3	2-19-2031	5-18-2031	0.2741	0.1386
4	5-19-2031	8-18-2031	0.2696	0.1333
5	8-19-2031	9-30-2031	0.1946	0.1905
		Highest	0.3108	0.1905

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1967	1.0000e-005	5.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1200e-003	1.1200e-003	0.0000	0.0000	1.1900e-003
Energy	6.9800e-003	0.0634	0.0533	3.8000e-004		4.8200e-003	4.8200e-003		4.8200e-003	4.8200e-003	0.0000	158.5334	158.5334	9.5700e-003	2.2700e-003	159.4479
Mobile	0.4028	0.3835	3.0123	5.2600e-003	0.6415	3.8800e-003	0.6453	0.1714	3.6200e-003	0.1750	0.0000	516.9424	516.9424	0.0429	0.0294	526.7877
Waste						0.0000	0.0000		0.0000	0.0000	38.6698	0.0000	38.6698	2.2853	0.0000	95.8027
Water						0.0000	0.0000		0.0000	0.0000	0.8554	3.5142	4.3696	3.2700e-003	1.9000e-003	5.0173
<b>Total</b>	<b>0.6065</b>	<b>0.4470</b>	<b>3.0662</b>	<b>5.6400e-003</b>	<b>0.6415</b>	<b>8.7000e-003</b>	<b>0.6502</b>	<b>0.1714</b>	<b>8.4400e-003</b>	<b>0.1798</b>	<b>39.5251</b>	<b>678.9911</b>	<b>718.5162</b>	<b>2.3411</b>	<b>0.0336</b>	<b>787.0568</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1967	1.0000e-005	5.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1200e-003	1.1200e-003	0.0000	0.0000	1.1900e-003
Energy	6.9800e-003	0.0634	0.0533	3.8000e-004		4.8200e-003	4.8200e-003		4.8200e-003	4.8200e-003	0.0000	158.5334	158.5334	9.5700e-003	2.2700e-003	159.4479
Mobile	0.4028	0.3835	3.0123	5.2600e-003	0.6415	3.8800e-003	0.6453	0.1714	3.6200e-003	0.1750	0.0000	516.9424	516.9424	0.0429	0.0294	526.7877
Waste						0.0000	0.0000		0.0000	0.0000	38.6698	0.0000	38.6698	2.2853	0.0000	95.8027
Water						0.0000	0.0000		0.0000	0.0000	0.8554	3.5142	4.3696	3.2700e-003	1.9000e-003	5.0173
<b>Total</b>	<b>0.6065</b>	<b>0.4470</b>	<b>3.0662</b>	<b>5.6400e-003</b>	<b>0.6415</b>	<b>8.7000e-003</b>	<b>0.6502</b>	<b>0.1714</b>	<b>8.4400e-003</b>	<b>0.1798</b>	<b>39.5251</b>	<b>678.9911</b>	<b>718.5162</b>	<b>2.3411</b>	<b>0.0336</b>	<b>787.0568</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/19/2030	9/11/2030	5	18	
2	Site Preparation	Site Preparation	9/12/2030	9/13/2030	5	2	
3	Grading	Grading	9/16/2030	9/20/2030	5	5	

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4	Building Construction	Building Construction	9/20/2030	7/31/2031	5	225
5	Paving	Paving	8/1/2031	8/15/2031	5	11
6	Architectural Coating	Architectural Coating	8/18/2031	9/1/2031	5	11

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 67,500; Non-Residential Outdoor: 22,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	360.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	40.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	100.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	19.00	7.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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	0.0120	0.0721	0.1167	2.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	21.7354	21.7354	9.6000e-004	0.0000	21.7594
<b>Total</b>	<b>0.0120</b>	<b>0.0721</b>	<b>0.1167</b>	<b>2.5000e-004</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>0.0000</b>	<b>21.7354</b>	<b>21.7354</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>21.7594</b>

**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	4.1000e-004	0.0241	5.8200e-003	1.0000e-004	3.0400e-003	1.8000e-004	3.2200e-003	8.3000e-004	1.7000e-004	1.0100e-003	0.0000	9.6403	9.6403	3.9000e-004	1.5300e-003	10.1058
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	2.2000e-004	1.1000e-004	1.8600e-003	1.0000e-005	8.6000e-004	0.0000	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.5913	0.5913	1.0000e-005	1.0000e-005	0.5956
<b>Total</b>	<b>6.3000e-004</b>	<b>0.0242</b>	<b>7.6800e-003</b>	<b>1.1000e-004</b>	<b>3.9000e-003</b>	<b>1.8000e-004</b>	<b>4.0800e-003</b>	<b>1.0600e-003</b>	<b>1.7000e-004</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>10.2316</b>	<b>10.2316</b>	<b>4.0000e-004</b>	<b>1.5400e-003</b>	<b>10.7015</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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	2.5300e-003	0.0110	0.1325	2.5000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	21.7354	21.7354	9.6000e-004	0.0000	21.7594
<b>Total</b>	<b>2.5300e-003</b>	<b>0.0110</b>	<b>0.1325</b>	<b>2.5000e-004</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>21.7354</b>	<b>21.7354</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>21.7594</b>

**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	4.1000e-004	0.0241	5.8200e-003	1.0000e-004	3.0400e-003	1.8000e-004	3.2200e-003	8.3000e-004	1.7000e-004	1.0100e-003	0.0000	9.6403	9.6403	3.9000e-004	1.5300e-003	10.1058
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	2.2000e-004	1.1000e-004	1.8600e-003	1.0000e-005	8.6000e-004	0.0000	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.5913	0.5913	1.0000e-005	1.0000e-005	0.5956
<b>Total</b>	<b>6.3000e-004</b>	<b>0.0242</b>	<b>7.6800e-003</b>	<b>1.1000e-004</b>	<b>3.9000e-003</b>	<b>1.8000e-004</b>	<b>4.0800e-003</b>	<b>1.0600e-003</b>	<b>1.7000e-004</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>10.2316</b>	<b>10.2316</b>	<b>4.0000e-004</b>	<b>1.5400e-003</b>	<b>10.7015</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.2700e-003	0.0000	6.2700e-003	3.0000e-003	0.0000	3.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8000e-004	4.7400e-003	5.9100e-003	2.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	1.8096	1.8096	8.0000e-005	0.0000	1.8115
<b>Total</b>	<b>9.8000e-004</b>	<b>4.7400e-003</b>	<b>5.9100e-003</b>	<b>2.0000e-005</b>	<b>6.2700e-003</b>	<b>1.6000e-004</b>	<b>6.4300e-003</b>	<b>3.0000e-003</b>	<b>1.6000e-004</b>	<b>3.1600e-003</b>	<b>0.0000</b>	<b>1.8096</b>	<b>1.8096</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.8115</b>

**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	5.0000e-005	2.6800e-003	6.5000e-004	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.0711	1.0711	4.0000e-005	1.7000e-004	1.1229
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	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0404	0.0404	0.0000	0.0000	0.0407
<b>Total</b>	<b>7.0000e-005</b>	<b>2.6900e-003</b>	<b>7.8000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>	<b>2.0000e-005</b>	<b>4.2000e-004</b>	<b>1.1000e-004</b>	<b>2.0000e-005</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.1116</b>	<b>1.1116</b>	<b>4.0000e-005</b>	<b>1.7000e-004</b>	<b>1.1636</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.8200e-003	0.0000	2.8200e-003	1.3500e-003	0.0000	1.3500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	9.1000e-004	8.6700e-003	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.8096	1.8096	8.0000e-005	0.0000	1.8115
<b>Total</b>	<b>2.1000e-004</b>	<b>9.1000e-004</b>	<b>8.6700e-003</b>	<b>2.0000e-005</b>	<b>2.8200e-003</b>	<b>3.0000e-005</b>	<b>2.8500e-003</b>	<b>1.3500e-003</b>	<b>3.0000e-005</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>1.8096</b>	<b>1.8096</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.8115</b>

**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	5.0000e-005	2.6800e-003	6.5000e-004	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.0711	1.0711	4.0000e-005	1.7000e-004	1.1229
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	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0404	0.0404	0.0000	0.0000	0.0407
<b>Total</b>	<b>7.0000e-005</b>	<b>2.6900e-003</b>	<b>7.8000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>	<b>2.0000e-005</b>	<b>4.2000e-004</b>	<b>1.1000e-004</b>	<b>2.0000e-005</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.1116</b>	<b>1.1116</b>	<b>4.0000e-005</b>	<b>1.7000e-004</b>	<b>1.1636</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					0.0177	0.0000	0.0177	8.5600e-003	0.0000	8.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9400e-003	0.0148	0.0199	6.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	5.4165	5.4165	2.4000e-004	0.0000	5.4224
<b>Total</b>	<b>2.9400e-003</b>	<b>0.0148</b>	<b>0.0199</b>	<b>6.0000e-005</b>	<b>0.0177</b>	<b>4.6000e-004</b>	<b>0.0182</b>	<b>8.5600e-003</b>	<b>4.6000e-004</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>5.4165</b>	<b>5.4165</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>5.4224</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	6.7000e-003	1.6200e-003	3.0000e-005	8.4000e-004	5.0000e-005	8.9000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	2.6779	2.6779	1.1000e-004	4.2000e-004	2.8072
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	5.0000e-005	2.0000e-005	4.0000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1264	0.1264	0.0000	0.0000	0.1273
<b>Total</b>	<b>1.6000e-004</b>	<b>6.7200e-003</b>	<b>2.0200e-003</b>	<b>3.0000e-005</b>	<b>1.0200e-003</b>	<b>5.0000e-005</b>	<b>1.0700e-003</b>	<b>2.8000e-004</b>	<b>5.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>2.8042</b>	<b>2.8042</b>	<b>1.1000e-004</b>	<b>4.2000e-004</b>	<b>2.9344</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					7.9700e-003	0.0000	7.9700e-003	3.8500e-003	0.0000	3.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-004	2.7300e-003	0.0273	6.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	5.4165	5.4165	2.4000e-004	0.0000	5.4224
<b>Total</b>	<b>6.3000e-004</b>	<b>2.7300e-003</b>	<b>0.0273</b>	<b>6.0000e-005</b>	<b>7.9700e-003</b>	<b>8.0000e-005</b>	<b>8.0500e-003</b>	<b>3.8500e-003</b>	<b>8.0000e-005</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>5.4165</b>	<b>5.4165</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>5.4224</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	6.7000e-003	1.6200e-003	3.0000e-005	8.4000e-004	5.0000e-005	8.9000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	2.6779	2.6779	1.1000e-004	4.2000e-004	2.8072
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	5.0000e-005	2.0000e-005	4.0000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1264	0.1264	0.0000	0.0000	0.1273
<b>Total</b>	<b>1.6000e-004</b>	<b>6.7200e-003</b>	<b>2.0200e-003</b>	<b>3.0000e-005</b>	<b>1.0200e-003</b>	<b>5.0000e-005</b>	<b>1.0700e-003</b>	<b>2.8000e-004</b>	<b>5.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>2.8042</b>	<b>2.8042</b>	<b>1.1000e-004</b>	<b>4.2000e-004</b>	<b>2.9344</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	0.0395	0.2624	0.4420	8.7000e-004		4.6400e-003	4.6400e-003		4.6400e-003	4.6400e-003	0.0000	71.2793	71.2793	3.1900e-003	0.0000	71.3591
<b>Total</b>	<b>0.0395</b>	<b>0.2624</b>	<b>0.4420</b>	<b>8.7000e-004</b>		<b>4.6400e-003</b>	<b>4.6400e-003</b>		<b>4.6400e-003</b>	<b>4.6400e-003</b>	<b>0.0000</b>	<b>71.2793</b>	<b>71.2793</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>71.3591</b>

**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	2.6000e-004	0.0110	3.3000e-003	4.0000e-005	1.4900e-003	6.0000e-005	1.5500e-003	4.3000e-004	5.0000e-005	4.9000e-004	0.0000	4.1167	4.1167	1.0000e-004	6.1000e-004	4.3014
Worker	1.3100e-003	6.5000e-004	0.0110	4.0000e-005	5.0900e-003	2.0000e-005	5.1100e-003	1.3500e-003	2.0000e-005	1.3700e-003	0.0000	3.5049	3.5049	7.0000e-005	8.0000e-005	3.5306
<b>Total</b>	<b>1.5700e-003</b>	<b>0.0116</b>	<b>0.0143</b>	<b>8.0000e-005</b>	<b>6.5800e-003</b>	<b>8.0000e-005</b>	<b>6.6600e-003</b>	<b>1.7800e-003</b>	<b>7.0000e-005</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>7.6216</b>	<b>7.6216</b>	<b>1.7000e-004</b>	<b>6.9000e-004</b>	<b>7.8320</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	0.0107	0.1355	0.4790	8.7000e-004		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	71.2792	71.2792	3.1900e-003	0.0000	71.3590
<b>Total</b>	<b>0.0107</b>	<b>0.1355</b>	<b>0.4790</b>	<b>8.7000e-004</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>71.2792</b>	<b>71.2792</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>71.3590</b>

**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	2.6000e-004	0.0110	3.3000e-003	4.0000e-005	1.4900e-003	6.0000e-005	1.5500e-003	4.3000e-004	5.0000e-005	4.9000e-004	0.0000	4.1167	4.1167	1.0000e-004	6.1000e-004	4.3014
Worker	1.3100e-003	6.5000e-004	0.0110	4.0000e-005	5.0900e-003	2.0000e-005	5.1100e-003	1.3500e-003	2.0000e-005	1.3700e-003	0.0000	3.5049	3.5049	7.0000e-005	8.0000e-005	3.5306
<b>Total</b>	<b>1.5700e-003</b>	<b>0.0116</b>	<b>0.0143</b>	<b>8.0000e-005</b>	<b>6.5800e-003</b>	<b>8.0000e-005</b>	<b>6.6600e-003</b>	<b>1.7800e-003</b>	<b>7.0000e-005</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>7.6216</b>	<b>7.6216</b>	<b>1.7000e-004</b>	<b>6.9000e-004</b>	<b>7.8320</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	0.0822	0.5463	0.9204	1.8100e-003		9.6500e-003	9.6500e-003		9.6500e-003	9.6500e-003	0.0000	148.4172	148.4172	6.6400e-003	0.0000	148.5832
<b>Total</b>	<b>0.0822</b>	<b>0.5463</b>	<b>0.9204</b>	<b>1.8100e-003</b>		<b>9.6500e-003</b>	<b>9.6500e-003</b>		<b>9.6500e-003</b>	<b>9.6500e-003</b>	<b>0.0000</b>	<b>148.4172</b>	<b>148.4172</b>	<b>6.6400e-003</b>	<b>0.0000</b>	<b>148.5832</b>

**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	5.4000e-004	0.0226	6.8200e-003	9.0000e-005	3.1100e-003	1.2000e-004	3.2300e-003	9.0000e-004	1.1000e-004	1.0100e-003	0.0000	8.4282	8.4282	2.1000e-004	1.2500e-003	8.8069
Worker	2.5800e-003	1.2800e-003	0.0222	7.0000e-005	0.0106	4.0000e-005	0.0106	2.8200e-003	3.0000e-005	2.8500e-003	0.0000	7.1862	7.1862	1.4000e-004	1.6000e-004	7.2379
<b>Total</b>	<b>3.1200e-003</b>	<b>0.0239</b>	<b>0.0290</b>	<b>1.6000e-004</b>	<b>0.0137</b>	<b>1.6000e-004</b>	<b>0.0139</b>	<b>3.7200e-003</b>	<b>1.4000e-004</b>	<b>3.8600e-003</b>	<b>0.0000</b>	<b>15.6144</b>	<b>15.6144</b>	<b>3.5000e-004</b>	<b>1.4100e-003</b>	<b>16.0448</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	0.0223	0.2821	0.9974	1.8100e-003		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	148.4170	148.4170	6.6400e-003	0.0000	148.5831
<b>Total</b>	<b>0.0223</b>	<b>0.2821</b>	<b>0.9974</b>	<b>1.8100e-003</b>		<b>2.3000e-003</b>	<b>2.3000e-003</b>		<b>2.3000e-003</b>	<b>2.3000e-003</b>	<b>0.0000</b>	<b>148.4170</b>	<b>148.4170</b>	<b>6.6400e-003</b>	<b>0.0000</b>	<b>148.5831</b>

**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	5.4000e-004	0.0226	6.8200e-003	9.0000e-005	3.1100e-003	1.2000e-004	3.2300e-003	9.0000e-004	1.1000e-004	1.0100e-003	0.0000	8.4282	8.4282	2.1000e-004	1.2500e-003	8.8069
Worker	2.5800e-003	1.2800e-003	0.0222	7.0000e-005	0.0106	4.0000e-005	0.0106	2.8200e-003	3.0000e-005	2.8500e-003	0.0000	7.1862	7.1862	1.4000e-004	1.6000e-004	7.2379
<b>Total</b>	<b>3.1200e-003</b>	<b>0.0239</b>	<b>0.0290</b>	<b>1.6000e-004</b>	<b>0.0137</b>	<b>1.6000e-004</b>	<b>0.0139</b>	<b>3.7200e-003</b>	<b>1.4000e-004</b>	<b>3.8600e-003</b>	<b>0.0000</b>	<b>15.6144</b>	<b>15.6144</b>	<b>3.5000e-004</b>	<b>1.4100e-003</b>	<b>16.0448</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4900e-003	0.0242	0.0520	9.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	7.7386	7.7386	3.6000e-004	0.0000	7.7477
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>4.4900e-003</b>	<b>0.0242</b>	<b>0.0520</b>	<b>9.0000e-005</b>		<b>9.5000e-004</b>	<b>9.5000e-004</b>		<b>9.5000e-004</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>7.7386</b>	<b>7.7386</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>7.7477</b>

**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-004	6.0000e-005	1.1000e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3558	0.3558	1.0000e-005	1.0000e-005	0.3584
<b>Total</b>	<b>1.3000e-004</b>	<b>6.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>5.3000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.3558</b>	<b>0.3558</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3584</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**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	8.8000e-004	3.8100e-003	0.0542	9.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.7386	7.7386	3.6000e-004	0.0000	7.7477
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>8.8000e-004</b>	<b>3.8100e-003</b>	<b>0.0542</b>	<b>9.0000e-005</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>7.7386</b>	<b>7.7386</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>7.7477</b>

**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-004	6.0000e-005	1.1000e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3558	0.3558	1.0000e-005	1.0000e-005	0.3584
<b>Total</b>	<b>1.3000e-004</b>	<b>6.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>5.3000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.3558</b>	<b>0.3558</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3584</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	0.2086					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	4.7100e-003	9.8900e-003	2.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.4043	1.4043	6.0000e-005	0.0000	1.4057
<b>Total</b>	<b>0.2093</b>	<b>4.7100e-003</b>	<b>9.8900e-003</b>	<b>2.0000e-005</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.4043</b>	<b>1.4043</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.4057</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	3.4000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1095	0.1095	0.0000	0.0000	0.1103
<b>Total</b>	<b>4.0000e-005</b>	<b>2.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1095</b>	<b>0.1095</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1103</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	0.2086					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-004	7.1000e-004	0.0101	2.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.4043	1.4043	6.0000e-005	0.0000	1.4057
<b>Total</b>	<b>0.2087</b>	<b>7.1000e-004</b>	<b>0.0101</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.4043</b>	<b>1.4043</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.4057</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	3.4000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1095	0.1095	0.0000	0.0000	0.1103
<b>Total</b>	<b>4.0000e-005</b>	<b>2.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1095</b>	<b>0.1095</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1103</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3E  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.40	1000sqft	0.33	14,400.00	0
Enclosed Parking Structure	48.00	Space	0.43	14,400.00	0
Congregate Care (Assisted Living)	100.00	Dwelling Unit	6.25	57,600.00	267

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2032
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - Active Senior Living BLDG  
 Land Use - Active Senior Living Building  
 Construction Phase - Adjusted Schedule  
 Trips and VMT - 10 truck/day for demo, site prep. grading  
 Grading -  
 Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	10.00	8.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	230.00	308.00
tblConstructionPhase	NumDays	20.00	26.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	20.00	27.00
tblLandUse	LandUseSquareFeet	19,200.00	14,400.00
tblLandUse	LandUseSquareFeet	100,000.00	57,600.00
tblTripsAndVMT	HaulingTripNumber	0.00	160.00
tblTripsAndVMT	HaulingTripNumber	0.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	170.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2031	0.1788	1.0343	1.9989	4.5000e-003	0.2098	0.0211	0.2309	0.0886	0.0211	0.1097	0.0000	393.2905	393.2905	0.0148	5.9200e-003	395.4264
2032	0.5222	0.6264	1.2996	2.6900e-003	0.0452	0.0139	0.0591	0.0122	0.0138	0.0260	0.0000	234.5328	234.5328	8.8100e-003	2.7000e-003	235.5587
<b>Maximum</b>	<b>0.5222</b>	<b>1.0343</b>	<b>1.9989</b>	<b>4.5000e-003</b>	<b>0.2098</b>	<b>0.0211</b>	<b>0.2309</b>	<b>0.0886</b>	<b>0.0211</b>	<b>0.1097</b>	<b>0.0000</b>	<b>393.2905</b>	<b>393.2905</b>	<b>0.0148</b>	<b>5.9200e-003</b>	<b>395.4264</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	tons/yr										MT/yr					
2031	0.0556	0.3401	2.2020	4.5000e-003	0.1335	5.6800e-003	0.1392	0.0504	5.6400e-003	0.0560	0.0000	393.2901	393.2901	0.0148	5.9200e-003	395.4261
2032	0.4472	0.1953	1.3977	2.6900e-003	0.0452	3.3300e-003	0.0486	0.0122	3.3100e-003	0.0155	0.0000	234.5325	234.5325	8.8100e-003	2.7000e-003	235.5585
<b>Maximum</b>	<b>0.4472</b>	<b>0.3401</b>	<b>2.2020</b>	<b>4.5000e-003</b>	<b>0.1335</b>	<b>5.6800e-003</b>	<b>0.1392</b>	<b>0.0504</b>	<b>5.6400e-003</b>	<b>0.0560</b>	<b>0.0000</b>	<b>393.2901</b>	<b>393.2901</b>	<b>0.0148</b>	<b>5.9200e-003</b>	<b>395.4261</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	28.28	67.76	-9.13	0.00	29.94	74.23	35.27	37.93	74.36	47.30	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-18-2031	5-17-2031	0.3739	0.1117
2	5-18-2031	8-17-2031	0.3320	0.1125
3	8-18-2031	11-17-2031	0.3327	0.1132
4	11-18-2031	2-17-2032	0.3331	0.1135
5	2-18-2032	5-17-2032	0.3248	0.1100
6	5-18-2032	8-17-2032	0.4911	0.3202
7	8-18-2032	9-30-2032	0.1524	0.1485
		Highest	0.4911	0.3202

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3559	0.0119	1.0293	5.0000e-005		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003	0.0000	1.6861	1.6861	1.6100e-003	0.0000	1.7263
Energy	6.0900e-003	0.0526	0.0262	3.3000e-004		4.2000e-003	4.2000e-003		4.2000e-003	4.2000e-003	0.0000	168.2251	168.2251	0.0111	2.3100e-003	169.1915
Mobile	0.1327	0.1551	1.2462	2.6500e-003	0.3401	1.7500e-003	0.3418	0.0909	1.6300e-003	0.0925	0.0000	261.3220	261.3220	0.0169	0.0123	265.4044
Waste						0.0000	0.0000		0.0000	0.0000	21.2410	0.0000	21.2410	1.2553	0.0000	52.6236
Water						0.0000	0.0000		0.0000	0.0000	3.2107	10.5679	13.7786	0.0120	7.1000e-003	16.1951
<b>Total</b>	<b>0.4946</b>	<b>0.2195</b>	<b>2.3017</b>	<b>3.0300e-003</b>	<b>0.3401</b>	<b>0.0117</b>	<b>0.3518</b>	<b>0.0909</b>	<b>0.0116</b>	<b>0.1024</b>	<b>24.4516</b>	<b>441.8010</b>	<b>466.2527</b>	<b>1.2970</b>	<b>0.0217</b>	<b>505.1409</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3559	0.0119	1.0293	5.0000e-005		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003	0.0000	1.6861	1.6861	1.6100e-003	0.0000	1.7263
Energy	6.0900e-003	0.0526	0.0262	3.3000e-004		4.2000e-003	4.2000e-003		4.2000e-003	4.2000e-003	0.0000	168.2251	168.2251	0.0111	2.3100e-003	169.1915
Mobile	0.1327	0.1551	1.2462	2.6500e-003	0.3401	1.7500e-003	0.3418	0.0909	1.6300e-003	0.0925	0.0000	261.3220	261.3220	0.0169	0.0123	265.4044
Waste						0.0000	0.0000		0.0000	0.0000	21.2410	0.0000	21.2410	1.2553	0.0000	52.6236
Water						0.0000	0.0000		0.0000	0.0000	3.2107	10.5679	13.7786	0.0120	7.1000e-003	16.1951
<b>Total</b>	<b>0.4946</b>	<b>0.2195</b>	<b>2.3017</b>	<b>3.0300e-003</b>	<b>0.3401</b>	<b>0.0117</b>	<b>0.3518</b>	<b>0.0909</b>	<b>0.0116</b>	<b>0.1024</b>	<b>24.4516</b>	<b>441.8010</b>	<b>466.2527</b>	<b>1.2970</b>	<b>0.0217</b>	<b>505.1409</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>

**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	2/18/2031	3/11/2031	5	16	
2	Site Preparation	Site Preparation	3/12/2031	3/21/2031	5	8	
3	Grading	Grading	3/24/2031	4/15/2031	5	17	

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4	Building Construction	Building Construction	4/15/2031	6/17/2032	5	308
5	Paving	Paving	6/18/2032	7/23/2032	5	26
6	Architectural Coating	Architectural Coating	7/26/2032	8/30/2032	5	27

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 0.43**

**Residential Indoor: 116,640; Residential Outdoor: 38,880; Non-Residential Indoor: 21,600; Non-Residential Outdoor: 7,200; Striped Parking Area: 864 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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Architectural Coating	Air Compressors	1	6.00	78	0.48
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	160.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	80.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	170.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	15.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 2031**

**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	0.0166	0.0782	0.1513	3.7000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	31.7775	31.7775	1.3400e-003	0.0000	31.8110
<b>Total</b>	<b>0.0166</b>	<b>0.0782</b>	<b>0.1513</b>	<b>3.7000e-004</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>31.7775</b>	<b>31.7775</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>31.8110</b>



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**3.2 Demolition - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	0.0105	2.5900e-003	4.0000e-005	1.3500e-003	8.0000e-005	1.4300e-003	3.7000e-004	8.0000e-005	4.5000e-004	0.0000	4.2078	4.2078	1.7000e-004	6.7000e-004	4.4110
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	2.1000e-004	1.1000e-004	1.8500e-003	1.0000e-005	8.8000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.5972	0.5972	1.0000e-005	1.0000e-005	0.6015
<b>Total</b>	<b>3.9000e-004</b>	<b>0.0106</b>	<b>4.4400e-003</b>	<b>5.0000e-005</b>	<b>2.2300e-003</b>	<b>8.0000e-005</b>	<b>2.3100e-003</b>	<b>6.0000e-004</b>	<b>8.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>4.8050</b>	<b>4.8050</b>	<b>1.8000e-004</b>	<b>6.8000e-004</b>	<b>5.0125</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	3.7000e-003	0.0160	0.1862	3.7000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	31.7774	31.7774	1.3400e-003	0.0000	31.8109
<b>Total</b>	<b>3.7000e-003</b>	<b>0.0160</b>	<b>0.1862</b>	<b>3.7000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>31.7774</b>	<b>31.7774</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>31.8109</b>

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**3.2 Demolition - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	0.0105	2.5900e-003	4.0000e-005	1.3500e-003	8.0000e-005	1.4300e-003	3.7000e-004	8.0000e-005	4.5000e-004	0.0000	4.2078	4.2078	1.7000e-004	6.7000e-004	4.4110
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	2.1000e-004	1.1000e-004	1.8500e-003	1.0000e-005	8.8000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.5972	0.5972	1.0000e-005	1.0000e-005	0.6015
<b>Total</b>	<b>3.9000e-004</b>	<b>0.0106</b>	<b>4.4400e-003</b>	<b>5.0000e-005</b>	<b>2.2300e-003</b>	<b>8.0000e-005</b>	<b>2.3100e-003</b>	<b>6.0000e-004</b>	<b>8.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>4.8050</b>	<b>4.8050</b>	<b>1.8000e-004</b>	<b>6.8000e-004</b>	<b>5.0125</b>

**3.3 Site Preparation - 2031**

**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					0.0786	0.0000	0.0786	0.0404	0.0000	0.0404	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7600e-003	0.0547	0.0652	1.9000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	16.0018	16.0018	7.9000e-004	0.0000	16.0216
<b>Total</b>	<b>9.7600e-003</b>	<b>0.0547</b>	<b>0.0652</b>	<b>1.9000e-004</b>	<b>0.0786</b>	<b>1.7500e-003</b>	<b>0.0804</b>	<b>0.0404</b>	<b>1.7500e-003</b>	<b>0.0422</b>	<b>0.0000</b>	<b>16.0018</b>	<b>16.0018</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>16.0216</b>

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**3.3 Site Preparation - 2031**

**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	9.0000e-005	5.2700e-003	1.2900e-003	2.0000e-005	6.8000e-004	4.0000e-005	7.1000e-004	1.9000e-004	4.0000e-005	2.2000e-004	0.0000	2.1039	2.1039	9.0000e-005	3.3000e-004	2.2055
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-004	6.0000e-005	1.1100e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3583	0.3583	1.0000e-005	1.0000e-005	0.3609
<b>Total</b>	<b>2.2000e-004</b>	<b>5.3300e-003</b>	<b>2.4000e-003</b>	<b>2.0000e-005</b>	<b>1.2100e-003</b>	<b>4.0000e-005</b>	<b>1.2400e-003</b>	<b>3.3000e-004</b>	<b>4.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>2.4622</b>	<b>2.4622</b>	<b>1.0000e-004</b>	<b>3.4000e-004</b>	<b>2.5664</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					0.0354	0.0000	0.0354	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8600e-003	8.0700e-003	0.0835	1.9000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	16.0018	16.0018	7.9000e-004	0.0000	16.0216
<b>Total</b>	<b>1.8600e-003</b>	<b>8.0700e-003</b>	<b>0.0835</b>	<b>1.9000e-004</b>	<b>0.0354</b>	<b>2.5000e-004</b>	<b>0.0356</b>	<b>0.0182</b>	<b>2.5000e-004</b>	<b>0.0184</b>	<b>0.0000</b>	<b>16.0018</b>	<b>16.0018</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>16.0216</b>

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**3.3 Site Preparation - 2031**

**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	9.0000e-005	5.2700e-003	1.2900e-003	2.0000e-005	6.8000e-004	4.0000e-005	7.1000e-004	1.9000e-004	4.0000e-005	2.2000e-004	0.0000	2.1039	2.1039	9.0000e-005	3.3000e-004	2.2055
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-004	6.0000e-005	1.1100e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3583	0.3583	1.0000e-005	1.0000e-005	0.3609
<b>Total</b>	<b>2.2000e-004</b>	<b>5.3300e-003</b>	<b>2.4000e-003</b>	<b>2.0000e-005</b>	<b>1.2100e-003</b>	<b>4.0000e-005</b>	<b>1.2400e-003</b>	<b>3.3000e-004</b>	<b>4.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>2.4622</b>	<b>2.4622</b>	<b>1.0000e-004</b>	<b>3.4000e-004</b>	<b>2.5664</b>

**3.4 Grading - 2031**

**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					0.0602	0.0000	0.0602	0.0291	0.0000	0.0291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.0659	0.1228	3.1000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	26.5239	26.5239	1.1100e-003	0.0000	26.5516
<b>Total</b>	<b>0.0138</b>	<b>0.0659</b>	<b>0.1228</b>	<b>3.1000e-004</b>	<b>0.0602</b>	<b>1.9900e-003</b>	<b>0.0622</b>	<b>0.0291</b>	<b>1.9900e-003</b>	<b>0.0311</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>26.5516</b>

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**3.4 Grading - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9000e-004	0.0112	2.7500e-003	5.0000e-005	1.4400e-003	8.0000e-005	1.5200e-003	3.9000e-004	8.0000e-005	4.7000e-004	0.0000	4.4708	4.4708	1.8000e-004	7.1000e-004	4.6867
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.1000e-004	1.9600e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.6345	0.6345	1.0000e-005	1.0000e-005	0.6391
<b>Total</b>	<b>4.2000e-004</b>	<b>0.0113</b>	<b>4.7100e-003</b>	<b>6.0000e-005</b>	<b>2.3800e-003</b>	<b>8.0000e-005</b>	<b>2.4600e-003</b>	<b>6.4000e-004</b>	<b>8.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>5.1053</b>	<b>5.1053</b>	<b>1.9000e-004</b>	<b>7.2000e-004</b>	<b>5.3257</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					0.0271	0.0000	0.0271	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0900e-003	0.0134	0.1509	3.1000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	26.5239	26.5239	1.1100e-003	0.0000	26.5516
<b>Total</b>	<b>3.0900e-003</b>	<b>0.0134</b>	<b>0.1509</b>	<b>3.1000e-004</b>	<b>0.0271</b>	<b>4.1000e-004</b>	<b>0.0275</b>	<b>0.0131</b>	<b>4.1000e-004</b>	<b>0.0135</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>26.5516</b>

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**3.4 Grading - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9000e-004	0.0112	2.7500e-003	5.0000e-005	1.4400e-003	8.0000e-005	1.5200e-003	3.9000e-004	8.0000e-005	4.7000e-004	0.0000	4.4708	4.4708	1.8000e-004	7.1000e-004	4.6867
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.1000e-004	1.9600e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.6345	0.6345	1.0000e-005	1.0000e-005	0.6391
<b>Total</b>	<b>4.2000e-004</b>	<b>0.0113</b>	<b>4.7100e-003</b>	<b>6.0000e-005</b>	<b>2.3800e-003</b>	<b>8.0000e-005</b>	<b>2.4600e-003</b>	<b>6.4000e-004</b>	<b>8.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>5.1053</b>	<b>5.1053</b>	<b>1.9000e-004</b>	<b>7.2000e-004</b>	<b>5.3257</b>

**3.5 Building Construction - 2031**

**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	0.1224	0.7419	1.5107	2.8900e-003		0.0139	0.0139		0.0139	0.0139	0.0000	245.7751	245.7751	9.8600e-003	0.0000	246.0216
<b>Total</b>	<b>0.1224</b>	<b>0.7419</b>	<b>1.5107</b>	<b>2.8900e-003</b>		<b>0.0139</b>	<b>0.0139</b>		<b>0.0139</b>	<b>0.0139</b>	<b>0.0000</b>	<b>245.7751</b>	<b>245.7751</b>	<b>9.8600e-003</b>	<b>0.0000</b>	<b>246.0216</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.4100e-003	0.0595	0.0180	2.3000e-004	8.2000e-003	3.1000e-004	8.5100e-003	2.3700e-003	3.0000e-004	2.6700e-003	0.0000	22.2192	22.2192	5.4000e-004	3.3000e-003	23.2174
Worker	0.0139	6.8500e-003	0.1193	3.9000e-004	0.0570	1.9000e-004	0.0572	0.0152	1.8000e-004	0.0153	0.0000	38.6206	38.6206	7.3000e-004	8.7000e-004	38.8987
<b>Total</b>	<b>0.0153</b>	<b>0.0664</b>	<b>0.1373</b>	<b>6.2000e-004</b>	<b>0.0652</b>	<b>5.0000e-004</b>	<b>0.0657</b>	<b>0.0175</b>	<b>4.8000e-004</b>	<b>0.0180</b>	<b>0.0000</b>	<b>60.8397</b>	<b>60.8397</b>	<b>1.2700e-003</b>	<b>4.1700e-003</b>	<b>62.1161</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	0.0307	0.2089	1.6325	2.8900e-003		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	245.7748	245.7748	9.8600e-003	0.0000	246.0213
<b>Total</b>	<b>0.0307</b>	<b>0.2089</b>	<b>1.6325</b>	<b>2.8900e-003</b>		<b>3.8100e-003</b>	<b>3.8100e-003</b>		<b>3.8100e-003</b>	<b>3.8100e-003</b>	<b>0.0000</b>	<b>245.7748</b>	<b>245.7748</b>	<b>9.8600e-003</b>	<b>0.0000</b>	<b>246.0213</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.4100e-003	0.0595	0.0180	2.3000e-004	8.2000e-003	3.1000e-004	8.5100e-003	2.3700e-003	3.0000e-004	2.6700e-003	0.0000	22.2192	22.2192	5.4000e-004	3.3000e-003	23.2174
Worker	0.0139	6.8500e-003	0.1193	3.9000e-004	0.0570	1.9000e-004	0.0572	0.0152	1.8000e-004	0.0153	0.0000	38.6206	38.6206	7.3000e-004	8.7000e-004	38.8987
<b>Total</b>	<b>0.0153</b>	<b>0.0664</b>	<b>0.1373</b>	<b>6.2000e-004</b>	<b>0.0652</b>	<b>5.0000e-004</b>	<b>0.0657</b>	<b>0.0175</b>	<b>4.8000e-004</b>	<b>0.0180</b>	<b>0.0000</b>	<b>60.8397</b>	<b>60.8397</b>	<b>1.2700e-003</b>	<b>4.1700e-003</b>	<b>62.1161</b>

**3.5 Building Construction - 2032**

**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	0.0792	0.4800	0.9775	1.8700e-003		8.9600e-003	8.9600e-003		8.9600e-003	8.9600e-003	0.0000	159.0309	159.0309	6.3800e-003	0.0000	159.1904
<b>Total</b>	<b>0.0792</b>	<b>0.4800</b>	<b>0.9775</b>	<b>1.8700e-003</b>		<b>8.9600e-003</b>	<b>8.9600e-003</b>		<b>8.9600e-003</b>	<b>8.9600e-003</b>	<b>0.0000</b>	<b>159.0309</b>	<b>159.0309</b>	<b>6.3800e-003</b>	<b>0.0000</b>	<b>159.1904</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-004	0.0381	0.0116	1.5000e-004	5.3100e-003	2.0000e-004	5.5000e-003	1.5300e-003	1.9000e-004	1.7200e-003	0.0000	14.1620	14.1620	3.5000e-004	2.1100e-003	14.7990
Worker	8.4600e-003	4.2000e-003	0.0749	2.5000e-004	0.0369	1.2000e-004	0.0370	9.8100e-003	1.1000e-004	9.9200e-003	0.0000	24.6492	24.6492	4.4000e-004	5.5000e-004	24.8242
<b>Total</b>	<b>9.3600e-003</b>	<b>0.0423</b>	<b>0.0865</b>	<b>4.0000e-004</b>	<b>0.0422</b>	<b>3.2000e-004</b>	<b>0.0425</b>	<b>0.0113</b>	<b>3.0000e-004</b>	<b>0.0116</b>	<b>0.0000</b>	<b>38.8112</b>	<b>38.8112</b>	<b>7.9000e-004</b>	<b>2.6600e-003</b>	<b>39.6231</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	0.0198	0.1352	1.0563	1.8700e-003		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003	0.0000	159.0307	159.0307	6.3800e-003	0.0000	159.1902
<b>Total</b>	<b>0.0198</b>	<b>0.1352</b>	<b>1.0563</b>	<b>1.8700e-003</b>		<b>2.4700e-003</b>	<b>2.4700e-003</b>		<b>2.4700e-003</b>	<b>2.4700e-003</b>	<b>0.0000</b>	<b>159.0307</b>	<b>159.0307</b>	<b>6.3800e-003</b>	<b>0.0000</b>	<b>159.1902</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-004	0.0381	0.0116	1.5000e-004	5.3100e-003	2.0000e-004	5.5000e-003	1.5300e-003	1.9000e-004	1.7200e-003	0.0000	14.1620	14.1620	3.5000e-004	2.1100e-003	14.7990
Worker	8.4600e-003	4.2000e-003	0.0749	2.5000e-004	0.0369	1.2000e-004	0.0370	9.8100e-003	1.1000e-004	9.9200e-003	0.0000	24.6492	24.6492	4.4000e-004	5.5000e-004	24.8242
<b>Total</b>	<b>9.3600e-003</b>	<b>0.0423</b>	<b>0.0865</b>	<b>4.0000e-004</b>	<b>0.0422</b>	<b>3.2000e-004</b>	<b>0.0425</b>	<b>0.0113</b>	<b>3.0000e-004</b>	<b>0.0116</b>	<b>0.0000</b>	<b>38.8112</b>	<b>38.8112</b>	<b>7.9000e-004</b>	<b>2.6600e-003</b>	<b>39.6231</b>

**3.6 Paving - 2032**

**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	0.0180	0.0926	0.2060	3.6000e-004		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003	0.0000	31.3294	31.3294	1.4700e-003	0.0000	31.3661
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>0.0180</b>	<b>0.0926</b>	<b>0.2060</b>	<b>3.6000e-004</b>		<b>4.3000e-003</b>	<b>4.3000e-003</b>		<b>4.3000e-003</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>31.3294</b>	<b>31.3294</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>31.3661</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**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	3.3000e-004	1.6000e-004	2.9100e-003	1.0000e-005	1.4300e-003	0.0000	1.4400e-003	3.8000e-004	0.0000	3.9000e-004	0.0000	0.9572	0.9572	2.0000e-005	2.0000e-005	0.9640
<b>Total</b>	<b>3.3000e-004</b>	<b>1.6000e-004</b>	<b>2.9100e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>1.4400e-003</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>0.9572</b>	<b>0.9572</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9640</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	3.6500e-003	0.0158	0.2248	3.6000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	31.3293	31.3293	1.4700e-003	0.0000	31.3661
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>3.6500e-003</b>	<b>0.0158</b>	<b>0.2248</b>	<b>3.6000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>31.3293</b>	<b>31.3293</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>31.3661</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**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	3.3000e-004	1.6000e-004	2.9100e-003	1.0000e-005	1.4300e-003	0.0000	1.4400e-003	3.8000e-004	0.0000	3.9000e-004	0.0000	0.9572	0.9572	2.0000e-005	2.0000e-005	0.9640
<b>Total</b>	<b>3.3000e-004</b>	<b>1.6000e-004</b>	<b>2.9100e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>1.4400e-003</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>0.9572</b>	<b>0.9572</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9640</b>

**3.7 Architectural Coating - 2032**

**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	0.4133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-003	0.0111	0.0234	4.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.3192	3.3192	1.3000e-004	0.0000	3.3226
<b>Total</b>	<b>0.4150</b>	<b>0.0111</b>	<b>0.0234</b>	<b>4.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>3.3192</b>	<b>3.3192</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.3226</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	3.7000e-004	1.9000e-004	3.3000e-003	1.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	0.0000	4.4000e-004	0.0000	1.0848	1.0848	2.0000e-005	2.0000e-005	1.0925
<b>Total</b>	<b>3.7000e-004</b>	<b>1.9000e-004</b>	<b>3.3000e-003</b>	<b>1.0000e-005</b>	<b>1.6200e-003</b>	<b>1.0000e-005</b>	<b>1.6300e-003</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.0848</b>	<b>1.0848</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0925</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	0.4133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-004	1.6700e-003	0.0238	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.3192	3.3192	1.3000e-004	0.0000	3.3226
<b>Total</b>	<b>0.4137</b>	<b>1.6700e-003</b>	<b>0.0238</b>	<b>4.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>3.3192</b>	<b>3.3192</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.3226</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	3.7000e-004	1.9000e-004	3.3000e-003	1.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	0.0000	4.4000e-004	0.0000	1.0848	1.0848	2.0000e-005	2.0000e-005	1.0925
<b>Total</b>	<b>3.7000e-004</b>	<b>1.9000e-004</b>	<b>3.3000e-003</b>	<b>1.0000e-005</b>	<b>1.6200e-003</b>	<b>1.0000e-005</b>	<b>1.6300e-003</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.0848</b>	<b>1.0848</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0925</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3F  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,200.00	Space	10.80	207,000.00	0
Strip Mall	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2032
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Parking/Retail Construction ONLY

Land Use - Retail + Parking structure 2

Construction Off-road Equipment Mitigation - Tier 4+ PM BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblLandUse	LandUseSquareFeet	480,000.00	207,000.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2031	0.1960	1.0952	1.9678	4.9300e-003	0.3140	0.0248	0.3388	0.1264	0.0247	0.1511	0.0000	440.3496	440.3496	0.0163	8.1800e-003	443.1970
2032	0.3929	0.8285	1.5764	3.6000e-003	0.0793	0.0157	0.0950	0.0215	0.0157	0.0372	0.0000	318.3274	318.3274	0.0113	8.3700e-003	321.1022
<b>Maximum</b>	<b>0.3929</b>	<b>1.0952</b>	<b>1.9678</b>	<b>4.9300e-003</b>	<b>0.3140</b>	<b>0.0248</b>	<b>0.3388</b>	<b>0.1264</b>	<b>0.0247</b>	<b>0.1511</b>	<b>0.0000</b>	<b>440.3496</b>	<b>440.3496</b>	<b>0.0163</b>	<b>8.3700e-003</b>	<b>443.1970</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	tons/yr										MT/yr					
2031	0.0601	0.3820	2.2797	4.9300e-003	0.1840	6.3300e-003	0.1903	0.0685	6.2800e-003	0.0747	0.0000	440.3492	440.3492	0.0163	8.1800e-003	443.1966
2032	0.3058	0.3262	1.6909	3.6000e-003	0.0793	4.4200e-003	0.0837	0.0215	4.3800e-003	0.0259	0.0000	318.3272	318.3272	0.0113	8.3700e-003	321.1019
<b>Maximum</b>	<b>0.3058</b>	<b>0.3820</b>	<b>2.2797</b>	<b>4.9300e-003</b>	<b>0.1840</b>	<b>6.3300e-003</b>	<b>0.1903</b>	<b>0.0685</b>	<b>6.2800e-003</b>	<b>0.0747</b>	<b>0.0000</b>	<b>440.3492</b>	<b>440.3492</b>	<b>0.0163</b>	<b>8.3700e-003</b>	<b>443.1966</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	37.88	63.19	-12.03	0.00	33.05	73.46	36.83	39.16	73.63	46.56	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-18-2031	6-17-2031	0.4897	0.1127
2	6-18-2031	9-17-2031	0.3706	0.1510
3	9-18-2031	12-17-2031	0.3700	0.1529
4	12-18-2031	3-17-2032	0.3696	0.1525
5	3-18-2032	6-17-2032	0.3700	0.1505
6	6-18-2032	9-17-2032	0.4444	0.2592
7	9-18-2032	9-30-2032	0.0968	0.0938
		Highest	0.4897	0.2592

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2362	1.4000e-004	0.0159	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0310	0.0310	8.0000e-005	0.0000	0.0330
Energy	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	288.2712	288.2712	0.0255	3.3200e-003	289.8998
Mobile	0.5494	0.5289	4.2040	7.4100e-003	0.9237	5.2600e-003	0.9289	0.2468	4.9100e-003	0.2517	0.0000	731.5873	731.5873	0.0593	0.0411	745.3296
Waste						0.0000	0.0000		0.0000	0.0000	10.6570	0.0000	10.6570	0.6298	0.0000	26.4023
Water						0.0000	0.0000		0.0000	0.0000	1.3104	4.2865	5.5969	4.9100e-003	2.9000e-003	6.5830
<b>Total</b>	<b>0.7870</b>	<b>0.5422</b>	<b>4.2310</b>	<b>7.4900e-003</b>	<b>0.9237</b>	<b>6.3200e-003</b>	<b>0.9300</b>	<b>0.2468</b>	<b>5.9700e-003</b>	<b>0.2527</b>	<b>11.9674</b>	<b>1,024.1760</b>	<b>1,036.1434</b>	<b>0.7197</b>	<b>0.0474</b>	<b>1,068.2477</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2362	1.4000e-004	0.0159	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0310	0.0310	8.0000e-005	0.0000	0.0330
Energy	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	288.2712	288.2712	0.0255	3.3200e-003	289.8998
Mobile	0.5494	0.5289	4.2040	7.4100e-003	0.9237	5.2600e-003	0.9289	0.2468	4.9100e-003	0.2517	0.0000	731.5873	731.5873	0.0593	0.0411	745.3296
Waste						0.0000	0.0000		0.0000	0.0000	10.6570	0.0000	10.6570	0.6298	0.0000	26.4023
Water						0.0000	0.0000		0.0000	0.0000	1.3104	4.2865	5.5969	4.9100e-003	2.9000e-003	6.5830
<b>Total</b>	<b>0.7870</b>	<b>0.5422</b>	<b>4.2310</b>	<b>7.4900e-003</b>	<b>0.9237</b>	<b>6.3200e-003</b>	<b>0.9300</b>	<b>0.2468</b>	<b>5.9700e-003</b>	<b>0.2527</b>	<b>11.9674</b>	<b>1,024.1760</b>	<b>1,036.1434</b>	<b>0.7197</b>	<b>0.0474</b>	<b>1,068.2477</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/18/2031	4/14/2031	5	20	
2	Site Preparation	Site Preparation	4/15/2031	4/28/2031	5	10	
3	Grading	Grading	4/29/2031	6/9/2031	5	30	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Building Construction	Building Construction	6/10/2031	8/2/2032	5	300
5	Paving	Paving	8/3/2032	8/30/2032	5	20
6	Architectural Coating	Architectural Coating	8/31/2032	9/27/2032	5	20

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 10.8**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 12,420 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	103.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 2031**

**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	0.0208	0.0978	0.1892	4.6000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	39.7218	39.7218	1.6800e-003	0.0000	39.7637
<b>Total</b>	<b>0.0208</b>	<b>0.0978</b>	<b>0.1892</b>	<b>4.6000e-004</b>		<b>3.5100e-003</b>	<b>3.5100e-003</b>		<b>3.5100e-003</b>	<b>3.5100e-003</b>	<b>0.0000</b>	<b>39.7218</b>	<b>39.7218</b>	<b>1.6800e-003</b>	<b>0.0000</b>	<b>39.7637</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2031**

**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	2.7000e-004	1.3000e-004	2.3100e-003	1.0000e-005	1.1000e-003	0.0000	1.1100e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.7465	0.7465	1.0000e-005	2.0000e-005	0.7519
<b>Total</b>	<b>2.7000e-004</b>	<b>1.3000e-004</b>	<b>2.3100e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.7465</b>	<b>0.7465</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7519</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	4.6200e-003	0.0200	0.2328	4.6000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	39.7218	39.7218	1.6800e-003	0.0000	39.7637
<b>Total</b>	<b>4.6200e-003</b>	<b>0.0200</b>	<b>0.2328</b>	<b>4.6000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>39.7218</b>	<b>39.7218</b>	<b>1.6800e-003</b>	<b>0.0000</b>	<b>39.7637</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2031**

**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	2.7000e-004	1.3000e-004	2.3100e-003	1.0000e-005	1.1000e-003	0.0000	1.1100e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.7465	0.7465	1.0000e-005	2.0000e-005	0.7519
<b>Total</b>	<b>2.7000e-004</b>	<b>1.3000e-004</b>	<b>2.3100e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.7465</b>	<b>0.7465</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7519</b>

**3.3 Site Preparation - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0683	0.0815	2.3000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	20.0023	20.0023	9.9000e-004	0.0000	20.0270
<b>Total</b>	<b>0.0122</b>	<b>0.0683</b>	<b>0.0815</b>	<b>2.3000e-004</b>	<b>0.0983</b>	<b>2.1800e-003</b>	<b>0.1005</b>	<b>0.0505</b>	<b>2.1800e-003</b>	<b>0.0527</b>	<b>0.0000</b>	<b>20.0023</b>	<b>20.0023</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>20.0270</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2031**

**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	1.6000e-004	8.0000e-005	1.3800e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4479	0.4479	1.0000e-005	1.0000e-005	0.4511
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.4479</b>	<b>0.4479</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4511</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					0.0442	0.0000	0.0442	0.0227	0.0000	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	2.3000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	20.0023	20.0023	9.9000e-004	0.0000	20.0270
<b>Total</b>	<b>2.3300e-003</b>	<b>0.0101</b>	<b>0.1043</b>	<b>2.3000e-004</b>	<b>0.0442</b>	<b>3.1000e-004</b>	<b>0.0445</b>	<b>0.0227</b>	<b>3.1000e-004</b>	<b>0.0230</b>	<b>0.0000</b>	<b>20.0023</b>	<b>20.0023</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>20.0270</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2031**

**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	1.6000e-004	8.0000e-005	1.3800e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4479	0.4479	1.0000e-005	1.0000e-005	0.4511
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.4479</b>	<b>0.4479</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4511</b>

**3.4 Grading - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0492	0.2077	0.3454	1.0500e-003		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003	0.0000	98.1543	98.1543	3.9700e-003	0.0000	98.2535
<b>Total</b>	<b>0.0492</b>	<b>0.2077</b>	<b>0.3454</b>	<b>1.0500e-003</b>	<b>0.1381</b>	<b>7.3200e-003</b>	<b>0.1454</b>	<b>0.0548</b>	<b>7.3200e-003</b>	<b>0.0621</b>	<b>0.0000</b>	<b>98.1543</b>	<b>98.1543</b>	<b>3.9700e-003</b>	<b>0.0000</b>	<b>98.2535</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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	5.4000e-004	2.6000e-004	4.6100e-003	2.0000e-005	2.2000e-003	1.0000e-005	2.2100e-003	5.9000e-004	1.0000e-005	5.9000e-004	0.0000	1.4930	1.4930	3.0000e-005	3.0000e-005	1.5037
<b>Total</b>	<b>5.4000e-004</b>	<b>2.6000e-004</b>	<b>4.6100e-003</b>	<b>2.0000e-005</b>	<b>2.2000e-003</b>	<b>1.0000e-005</b>	<b>2.2100e-003</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>1.4930</b>	<b>1.4930</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.5037</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					0.0621	0.0000	0.0621	0.0247	0.0000	0.0247	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0495	0.4950	1.0500e-003		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	98.1542	98.1542	3.9700e-003	0.0000	98.2534
<b>Total</b>	<b>0.0114</b>	<b>0.0495</b>	<b>0.4950</b>	<b>1.0500e-003</b>	<b>0.0621</b>	<b>1.5200e-003</b>	<b>0.0636</b>	<b>0.0247</b>	<b>1.5200e-003</b>	<b>0.0262</b>	<b>0.0000</b>	<b>98.1542</b>	<b>98.1542</b>	<b>3.9700e-003</b>	<b>0.0000</b>	<b>98.2534</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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	5.4000e-004	2.6000e-004	4.6100e-003	2.0000e-005	2.2000e-003	1.0000e-005	2.2100e-003	5.9000e-004	1.0000e-005	5.9000e-004	0.0000	1.4930	1.4930	3.0000e-005	3.0000e-005	1.5037
<b>Total</b>	<b>5.4000e-004</b>	<b>2.6000e-004</b>	<b>4.6100e-003</b>	<b>2.0000e-005</b>	<b>2.2000e-003</b>	<b>1.0000e-005</b>	<b>2.2100e-003</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>1.4930</b>	<b>1.4930</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.5037</b>

**3.5 Building Construction - 2031**

**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	0.0962	0.5832	1.1875	2.2800e-003		0.0109	0.0109		0.0109	0.0109	0.0000	193.2029	193.2029	7.7500e-003	0.0000	193.3966
<b>Total</b>	<b>0.0962</b>	<b>0.5832</b>	<b>1.1875</b>	<b>2.2800e-003</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0109</b>	<b>0.0109</b>	<b>0.0000</b>	<b>193.2029</b>	<b>193.2029</b>	<b>7.7500e-003</b>	<b>0.0000</b>	<b>193.3966</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1100e-003	0.1310	0.0396	5.0000e-004	0.0181	6.8000e-004	0.0187	5.2200e-003	6.5000e-004	5.8700e-003	0.0000	48.9060	48.9060	1.1900e-003	7.2700e-003	51.1031
Worker	0.0135	6.6900e-003	0.1164	3.8000e-004	0.0556	1.9000e-004	0.0558	0.0148	1.7000e-004	0.0150	0.0000	37.6750	37.6750	7.2000e-004	8.5000e-004	37.9464
<b>Total</b>	<b>0.0166</b>	<b>0.1377</b>	<b>0.1560</b>	<b>8.8000e-004</b>	<b>0.0737</b>	<b>8.7000e-004</b>	<b>0.0745</b>	<b>0.0200</b>	<b>8.2000e-004</b>	<b>0.0208</b>	<b>0.0000</b>	<b>86.5810</b>	<b>86.5810</b>	<b>1.9100e-003</b>	<b>8.1200e-003</b>	<b>89.0495</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	0.0241	0.1643	1.2833	2.2800e-003		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003	0.0000	193.2026	193.2026	7.7500e-003	0.0000	193.3964
<b>Total</b>	<b>0.0241</b>	<b>0.1643</b>	<b>1.2833</b>	<b>2.2800e-003</b>		<b>3.0000e-003</b>	<b>3.0000e-003</b>		<b>3.0000e-003</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>193.2026</b>	<b>193.2026</b>	<b>7.7500e-003</b>	<b>0.0000</b>	<b>193.3964</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1100e-003	0.1310	0.0396	5.0000e-004	0.0181	6.8000e-004	0.0187	5.2200e-003	6.5000e-004	5.8700e-003	0.0000	48.9060	48.9060	1.1900e-003	7.2700e-003	51.1031
Worker	0.0135	6.6900e-003	0.1164	3.8000e-004	0.0556	1.9000e-004	0.0558	0.0148	1.7000e-004	0.0150	0.0000	37.6750	37.6750	7.2000e-004	8.5000e-004	37.9464
<b>Total</b>	<b>0.0166</b>	<b>0.1377</b>	<b>0.1560</b>	<b>8.8000e-004</b>	<b>0.0737</b>	<b>8.7000e-004</b>	<b>0.0745</b>	<b>0.0200</b>	<b>8.2000e-004</b>	<b>0.0208</b>	<b>0.0000</b>	<b>86.5810</b>	<b>86.5810</b>	<b>1.9100e-003</b>	<b>8.1200e-003</b>	<b>89.0495</b>

**3.5 Building Construction - 2032**

**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	0.1002	0.6070	1.2360	2.3700e-003		0.0113	0.0113		0.0113	0.0113	0.0000	201.0887	201.0887	8.0700e-003	0.0000	201.2904
<b>Total</b>	<b>0.1002</b>	<b>0.6070</b>	<b>1.2360</b>	<b>2.3700e-003</b>		<b>0.0113</b>	<b>0.0113</b>		<b>0.0113</b>	<b>0.0113</b>	<b>0.0000</b>	<b>201.0887</b>	<b>201.0887</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>201.2904</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1700e-003	0.1349	0.0410	5.1000e-004	0.0188	7.0000e-004	0.0195	5.4300e-003	6.6000e-004	6.1000e-003	0.0000	50.1404	50.1404	1.2200e-003	7.4700e-003	52.3957
Worker	0.0133	6.6000e-003	0.1175	3.9000e-004	0.0579	1.8000e-004	0.0581	0.0154	1.7000e-004	0.0156	0.0000	38.6784	38.6784	7.0000e-004	8.6000e-004	38.9529
<b>Total</b>	<b>0.0164</b>	<b>0.1415</b>	<b>0.1585</b>	<b>9.0000e-004</b>	<b>0.0767</b>	<b>8.8000e-004</b>	<b>0.0775</b>	<b>0.0208</b>	<b>8.3000e-004</b>	<b>0.0217</b>	<b>0.0000</b>	<b>88.8188</b>	<b>88.8188</b>	<b>1.9200e-003</b>	<b>8.3300e-003</b>	<b>91.3486</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	0.0251	0.1710	1.3357	2.3700e-003		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	201.0884	201.0884	8.0700e-003	0.0000	201.2901
<b>Total</b>	<b>0.0251</b>	<b>0.1710</b>	<b>1.3357</b>	<b>2.3700e-003</b>		<b>3.1200e-003</b>	<b>3.1200e-003</b>		<b>3.1200e-003</b>	<b>3.1200e-003</b>	<b>0.0000</b>	<b>201.0884</b>	<b>201.0884</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>201.2901</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1700e-003	0.1349	0.0410	5.1000e-004	0.0188	7.0000e-004	0.0195	5.4300e-003	6.6000e-004	6.1000e-003	0.0000	50.1404	50.1404	1.2200e-003	7.4700e-003	52.3957
Worker	0.0133	6.6000e-003	0.1175	3.9000e-004	0.0579	1.8000e-004	0.0581	0.0154	1.7000e-004	0.0156	0.0000	38.6784	38.6784	7.0000e-004	8.6000e-004	38.9529
<b>Total</b>	<b>0.0164</b>	<b>0.1415</b>	<b>0.1585</b>	<b>9.0000e-004</b>	<b>0.0767</b>	<b>8.8000e-004</b>	<b>0.0775</b>	<b>0.0208</b>	<b>8.3000e-004</b>	<b>0.0217</b>	<b>0.0000</b>	<b>88.8188</b>	<b>88.8188</b>	<b>1.9200e-003</b>	<b>8.3300e-003</b>	<b>91.3486</b>

**3.6 Paving - 2032**

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	0.0139	0.0712	0.1585	2.8000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	24.0995	24.0995	1.1300e-003	0.0000	24.1278
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>0.0139</b>	<b>0.0712</b>	<b>0.1585</b>	<b>2.8000e-004</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>24.0995</b>	<b>24.0995</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>24.1278</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**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	2.5000e-004	1.3000e-004	2.2400e-003	1.0000e-005	1.1000e-003	0.0000	1.1100e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.7363	0.7363	1.0000e-005	2.0000e-005	0.7415
<b>Total</b>	<b>2.5000e-004</b>	<b>1.3000e-004</b>	<b>2.2400e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.7363</b>	<b>0.7363</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7415</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	2.8000e-003	0.0122	0.1730	2.8000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	24.0995	24.0995	1.1300e-003	0.0000	24.1277
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>2.8000e-003</b>	<b>0.0122</b>	<b>0.1730</b>	<b>2.8000e-004</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>24.0995</b>	<b>24.0995</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>24.1277</b>

Innovation Park CNU Phase 3F - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**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	2.5000e-004	1.3000e-004	2.2400e-003	1.0000e-005	1.1000e-003	0.0000	1.1100e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.7363	0.7363	1.0000e-005	2.0000e-005	0.7415
<b>Total</b>	<b>2.5000e-004</b>	<b>1.3000e-004</b>	<b>2.2400e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.7363</b>	<b>0.7363</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7415</b>

**3.7 Architectural Coating - 2032**

**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	0.2605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	8.5600e-003	0.0180	3.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.5533	2.5533	1.0000e-004	0.0000	2.5558
<b>Total</b>	<b>0.2618</b>	<b>8.5600e-003</b>	<b>0.0180</b>	<b>3.0000e-005</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.5558</b>

Innovation Park CNU Phase 3F - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	3.5000e-004	1.8000e-004	3.1300e-003	1.0000e-005	1.5400e-003	0.0000	1.5500e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	1.0308	1.0308	2.0000e-005	2.0000e-005	1.0382
<b>Total</b>	<b>3.5000e-004</b>	<b>1.8000e-004</b>	<b>3.1300e-003</b>	<b>1.0000e-005</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.0308</b>	<b>1.0308</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0382</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	0.2605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.0000e-004	0.0000	2.5558
<b>Total</b>	<b>0.2608</b>	<b>1.2900e-003</b>	<b>0.0183</b>	<b>3.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.5558</b>

Innovation Park CNU Phase 3F - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	3.5000e-004	1.8000e-004	3.1300e-003	1.0000e-005	1.5400e-003	0.0000	1.5500e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	1.0308	1.0308	2.0000e-005	2.0000e-005	1.0382
<b>Total</b>	<b>3.5000e-004</b>	<b>1.8000e-004</b>	<b>3.1300e-003</b>	<b>1.0000e-005</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.0308</b>	<b>1.0308</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0382</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Innovation Park - Demolition - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - Demolition  
Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	183.80	Acre	183.80	8,006,328.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2024
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - Demolition of areana

Land Use - Demo of areana only

Construction Phase - Default demolition schedule for land use type

Demolition -

Construction Off-road Equipment Mitigation - Tier 4 MM + Dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Innovation Park - Demolition - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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**2.0 Emissions Summary**

**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					
2022	2.7389	27.6444	21.4103	0.0470	2.7675	1.2596	4.0271	0.4553	1.1715	1.6268	0.0000	4,629.5467	4,629.5467	1.0867	0.1254	4,694.0801
<b>Maximum</b>	<b>2.7389</b>	<b>27.6444</b>	<b>21.4103</b>	<b>0.0470</b>	<b>2.7675</b>	<b>1.2596</b>	<b>4.0271</b>	<b>0.4553</b>	<b>1.1715</b>	<b>1.6268</b>	<b>0.0000</b>	<b>4,629.5467</b>	<b>4,629.5467</b>	<b>1.0867</b>	<b>0.1254</b>	<b>4,694.0801</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					
2022	0.5620	3.9282	24.0961	0.0470	1.4128	0.0786	1.4915	0.2502	0.0779	0.3281	0.0000	4,629.5467	4,629.5467	1.0867	0.1254	4,694.0801
<b>Maximum</b>	<b>0.5620</b>	<b>3.9282</b>	<b>24.0961</b>	<b>0.0470</b>	<b>1.4128</b>	<b>0.0786</b>	<b>1.4915</b>	<b>0.2502</b>	<b>0.0779</b>	<b>0.3281</b>	<b>0.0000</b>	<b>4,629.5467</b>	<b>4,629.5467</b>	<b>1.0867</b>	<b>0.1254</b>	<b>4,694.0801</b>

## Innovation Park - Demolition - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	79.48	85.79	-12.54	0.00	48.95	93.76	62.96	45.05	93.35	79.83	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park - Demolition - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4142	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0402	0.0402	1.1000e-004		0.0429
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.1943	1.0124	8.2139	0.0160	1.5660	0.0122	1.5782	0.4175	0.0114	0.4289		1,653.8665	1,653.8665	0.1119	0.0792	1,680.2769
<b>Total</b>	<b>1.6085</b>	<b>1.0126</b>	<b>8.2326</b>	<b>0.0160</b>	<b>1.5660</b>	<b>0.0123</b>	<b>1.5783</b>	<b>0.4175</b>	<b>0.0115</b>	<b>0.4290</b>		<b>1,653.9067</b>	<b>1,653.9067</b>	<b>0.1120</b>	<b>0.0792</b>	<b>1,680.3198</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	0.4142	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0402	0.0402	1.1000e-004		0.0429
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.1943	1.0124	8.2139	0.0160	1.5660	0.0122	1.5782	0.4175	0.0114	0.4289		1,653.8665	1,653.8665	0.1119	0.0792	1,680.2769
<b>Total</b>	<b>1.6085</b>	<b>1.0126</b>	<b>8.2326</b>	<b>0.0160</b>	<b>1.5660</b>	<b>0.0123</b>	<b>1.5783</b>	<b>0.4175</b>	<b>0.0115</b>	<b>0.4290</b>		<b>1,653.9067</b>	<b>1,653.9067</b>	<b>0.1120</b>	<b>0.0792</b>	<b>1,680.3198</b>



Innovation Park - Demolition - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	10/7/2022	5	200	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2,183.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Innovation Park - Demolition - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4630	0.0000	2.4630	0.3729	0.0000	0.3729			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>2.4630</b>	<b>1.2427</b>	<b>3.7057</b>	<b>0.3729</b>	<b>1.1553</b>	<b>1.5282</b>		<b>3,746.781 2</b>	<b>3,746.781 2</b>	<b>1.0524</b>		<b>3,773.092 0</b>

Innovation Park - Demolition - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.0453	1.8975	0.3726	7.0900e-003	0.1904	0.0164	0.2067	0.0521	0.0156	0.0678		773.1528	773.1528	0.0311	0.1226	810.4499
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0544	0.0275	0.4436	1.0800e-003	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		109.6128	109.6128	3.2500e-003	2.8300e-003	110.5382
<b>Total</b>	<b>0.0997</b>	<b>1.9250</b>	<b>0.8162</b>	<b>8.1700e-003</b>	<b>0.3045</b>	<b>0.0170</b>	<b>0.3215</b>	<b>0.0824</b>	<b>0.0162</b>	<b>0.0986</b>		<b>882.7656</b>	<b>882.7656</b>	<b>0.0343</b>	<b>0.1254</b>	<b>920.9881</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					1.1084	0.0000	1.1084	0.1678	0.0000	0.1678			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>	<b>1.1084</b>	<b>0.0616</b>	<b>1.1700</b>	<b>0.1678</b>	<b>0.0616</b>	<b>0.2295</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

Innovation Park - Demolition - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.0453	1.8975	0.3726	7.0900e-003	0.1904	0.0164	0.2067	0.0521	0.0156	0.0678		773.1528	773.1528	0.0311	0.1226	810.4499
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0544	0.0275	0.4436	1.0800e-003	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		109.6128	109.6128	3.2500e-003	2.8300e-003	110.5382
<b>Total</b>	<b>0.0997</b>	<b>1.9250</b>	<b>0.8162</b>	<b>8.1700e-003</b>	<b>0.3045</b>	<b>0.0170</b>	<b>0.3215</b>	<b>0.0824</b>	<b>0.0162</b>	<b>0.0986</b>		<b>882.7656</b>	<b>882.7656</b>	<b>0.0343</b>	<b>0.1254</b>	<b>920.9881</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park PUD - Part 2**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	91.50	1000sqft	1.83	91,476.00	0
Elementary School	65.30	1000sqft	1.50	65,340.00	0
General Light Industry	9.30	1000sqft	0.43	9,256.50	0
Parking Lot	435.60	1000sqft	10.00	435,600.00	0
City Park	1.80	Acre	1.80	78,408.00	0
Health Club	114.30	1000sqft	2.63	114,345.00	0
Hotel	38.00	Room	0.94	54,450.00	0
Apartments Mid Rise	424.00	Dwelling Unit	5.92	433,759.00	1132
Condo/townhouse	119.00	Dwelling Unit	4.58	118,500.00	318
Single Family Housing	77.00	Dwelling Unit	6.40	138,150.00	206
Strip Mall	49.50	1000sqft	0.96	49,549.50	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2030
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - One quarter build out, construction only

Land Use - 1/4 of land use

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Phase - Adjusted for 4 year schedule

Trips and VMT -

Demolition -

Grading - Acre graded = site acreage

Architectural Coating -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblGrading	AcresOfGrading	234.00	37.00
tblGrading	AcresOfGrading	42.00	0.00
tblGrading	MaterialExported	0.00	56,930.00
tblGrading	MaterialImported	0.00	111,420.00
tblLandUse	LandUseSquareFeet	91,500.00	91,476.00
tblLandUse	LandUseSquareFeet	65,300.00	65,340.00
tblLandUse	LandUseSquareFeet	9,300.00	9,256.50

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LandUseSquareFeet	114,300.00	114,345.00
tblLandUse	LandUseSquareFeet	55,176.00	54,450.00
tblLandUse	LandUseSquareFeet	424,000.00	433,759.00
tblLandUse	LandUseSquareFeet	119,000.00	118,500.00
tblLandUse	LandUseSquareFeet	138,600.00	138,150.00
tblLandUse	LandUseSquareFeet	49,500.00	49,549.50
tblLandUse	LotAcreage	2.10	1.83
tblLandUse	LotAcreage	0.21	0.43
tblLandUse	LotAcreage	2.62	2.63
tblLandUse	LotAcreage	1.27	0.94
tblLandUse	LotAcreage	11.16	5.92
tblLandUse	LotAcreage	7.44	4.58
tblLandUse	LotAcreage	25.00	6.40
tblLandUse	LotAcreage	1.14	0.96

**2.0 Emissions Summary**

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Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	3.6666	66.8789	35.7561	0.2286	16.9988	1.4388	18.0862	9.3050	1.3350	10.3054	0.0000	24,199.08 53	24,199.08 53	2.6699	2.8669	25,120.17 11
2027	3.6707	65.8705	35.7373	0.2248	12.2911	1.4316	13.7227	4.9481	1.3281	6.2762	0.0000	23,786.96 35	23,786.96 35	2.6529	2.8020	24,688.27 44
2028	3.5525	22.2395	34.5077	0.1101	7.2373	0.6011	7.8384	1.9488	0.5657	2.5145	0.0000	11,449.10 33	11,449.10 33	0.7927	0.6859	11,673.31 24
2029	3.4374	22.0468	33.8031	0.1082	7.2372	0.5986	7.8358	1.9488	0.5634	2.5121	0.0000	11,277.94 11	11,277.94 11	0.7836	0.6712	11,497.55 34
2030	224.5639	7.1331	16.1260	0.0289	1.1867	0.3310	1.2111	0.3148	0.3310	0.3613	0.0000	2,748.001 7	2,748.001 7	0.1261	0.0188	2,751.692 8
<b>Maximum</b>	<b>224.5639</b>	<b>66.8789</b>	<b>35.7561</b>	<b>0.2286</b>	<b>16.9988</b>	<b>1.4388</b>	<b>18.0862</b>	<b>9.3050</b>	<b>1.3350</b>	<b>10.3054</b>	<b>0.0000</b>	<b>24,199.08 53</b>	<b>24,199.08 53</b>	<b>2.6699</b>	<b>2.8669</b>	<b>25,120.17 11</b>



Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.0697	0.5889	51.0974	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0882	0.0000	94.4838
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	29.4682	23.1802	205.8963	0.4180	49.1514	0.2814	49.4328	13.0965	0.2627	13.3592		45,058.2676	45,058.2676	2.8274	2.0319	45,734.4638
<b>Total</b>	<b>58.0395</b>	<b>28.2000</b>	<b>259.8723</b>	<b>0.4481</b>	<b>49.1514</b>	<b>0.9120</b>	<b>50.0634</b>	<b>13.0965</b>	<b>0.8933</b>	<b>13.9898</b>	<b>0.0000</b>	<b>50,623.5624</b>	<b>50,623.5624</b>	<b>3.0205</b>	<b>2.1323</b>	<b>51,334.4871</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	28.0697	0.5889	51.0974	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0882	0.0000	94.4838
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	29.4682	23.1802	205.8963	0.4180	49.1514	0.2814	49.4328	13.0965	0.2627	13.3592		45,058.2676	45,058.2676	2.8274	2.0319	45,734.4638
<b>Total</b>	<b>58.0395</b>	<b>28.2000</b>	<b>259.8723</b>	<b>0.4481</b>	<b>49.1514</b>	<b>0.9120</b>	<b>50.0634</b>	<b>13.0965</b>	<b>0.8933</b>	<b>13.9898</b>	<b>0.0000</b>	<b>50,623.5624</b>	<b>50,623.5624</b>	<b>3.0205</b>	<b>2.1323</b>	<b>51,334.4871</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2026	9/8/2026	5	50	
2	Site Preparation	Site Preparation	9/9/2026	10/20/2026	5	30	
3	Grading	Grading	10/21/2026	2/2/2027	5	75	
4	Building Construction	Building Construction	2/3/2027	12/4/2029	5	740	
5	Paving	Paving	12/5/2029	2/19/2030	5	55	
6	Architectural Coating	Architectural Coating	2/20/2030	5/7/2030	5	55	

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

**Acres of Grading (Grading Phase): 37**

**Acres of Paving: 10**

**Residential Indoor: 1,398,078; Residential Outdoor: 466,026; Non-Residential Indoor: 576,626; Non-Residential Outdoor: 192,209; Striped Parking Area: 26,136 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	973.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	21,044.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	782.00	214.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	156.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Fugitive Dust					4.3928	0.0000	4.3928	0.6651	0.0000	0.6651			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>	<b>4.3928</b>	<b>0.8528</b>	<b>5.2456</b>	<b>0.6651</b>	<b>0.7920</b>	<b>1.4571</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0492	2.6988	0.6229	0.0115	0.3391	0.0213	0.3604	0.0928	0.0204	0.1132		1,252.4539	1,252.4539	0.0502	0.1986	1,312.9020
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0418	0.0176	0.3331	9.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		99.0944	99.0944	2.1800e-003	2.1500e-003	99.7895
<b>Total</b>	<b>0.0910</b>	<b>2.7164</b>	<b>0.9560</b>	<b>0.0124</b>	<b>0.4532</b>	<b>0.0218</b>	<b>0.4750</b>	<b>0.1231</b>	<b>0.0209</b>	<b>0.1440</b>		<b>1,351.5483</b>	<b>1,351.5483</b>	<b>0.0524</b>	<b>0.2008</b>	<b>1,412.6915</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2026**

**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					1.9768	0.0000	1.9768	0.2993	0.0000	0.2993			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>	<b>1.9768</b>	<b>0.0616</b>	<b>2.0384</b>	<b>0.2993</b>	<b>0.0616</b>	<b>0.3610</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0492	2.6988	0.6229	0.0115	0.3391	0.0213	0.3604	0.0928	0.0204	0.1132		1,252.4539	1,252.4539	0.0502	0.1986	1,312.9020
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0418	0.0176	0.3331	9.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		99.0944	99.0944	2.1800e-003	2.1500e-003	99.7895
<b>Total</b>	<b>0.0910</b>	<b>2.7164</b>	<b>0.9560</b>	<b>0.0124</b>	<b>0.4532</b>	<b>0.0218</b>	<b>0.4750</b>	<b>0.1231</b>	<b>0.0209</b>	<b>0.1440</b>		<b>1,351.5483</b>	<b>1,351.5483</b>	<b>0.0524</b>	<b>0.2008</b>	<b>1,412.6915</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					16.8618	0.0000	16.8618	9.2686	0.0000	9.2686			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>16.8618</b>	<b>1.0868</b>	<b>17.9486</b>	<b>9.2686</b>	<b>0.9999</b>	<b>10.2685</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0501	0.0211	0.3997	1.1300e-003	0.1369	6.1000e-004	0.1375	0.0363	5.6000e-004	0.0369		118.9133	118.9133	2.6200e-003	2.5800e-003	119.7473
<b>Total</b>	<b>0.0501</b>	<b>0.0211</b>	<b>0.3997</b>	<b>1.1300e-003</b>	<b>0.1369</b>	<b>6.1000e-004</b>	<b>0.1375</b>	<b>0.0363</b>	<b>5.6000e-004</b>	<b>0.0369</b>		<b>118.9133</b>	<b>118.9133</b>	<b>2.6200e-003</b>	<b>2.5800e-003</b>	<b>119.7473</b>



Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2026**

**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					7.5878	0.0000	7.5878	4.1709	0.0000	4.1709			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>7.5878</b>	<b>0.0621</b>	<b>7.6499</b>	<b>4.1709</b>	<b>0.0621</b>	<b>4.2330</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0501	0.0211	0.3997	1.1300e-003	0.1369	6.1000e-004	0.1375	0.0363	5.6000e-004	0.0369		118.9133	118.9133	2.6200e-003	2.5800e-003	119.7473
<b>Total</b>	<b>0.0501</b>	<b>0.0211</b>	<b>0.3997</b>	<b>1.1300e-003</b>	<b>0.1369</b>	<b>6.1000e-004</b>	<b>0.1375</b>	<b>0.0363</b>	<b>5.6000e-004</b>	<b>0.0369</b>		<b>118.9133</b>	<b>118.9133</b>	<b>2.6200e-003</b>	<b>2.5800e-003</b>	<b>119.7473</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					7.2504	0.0000	7.2504	3.5694	0.0000	3.5694			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>7.2504</b>	<b>1.1309</b>	<b>8.3813</b>	<b>3.5694</b>	<b>1.0404</b>	<b>4.6098</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**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	0.7097	38.9125	8.9809	0.1653	4.8895	0.3073	5.1968	1.3386	0.2940	1.6326		18,058.6780	18,058.6780	0.7238	2.8640	18,930.2571
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0557	0.0235	0.4441	1.2600e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		132.1259	132.1259	2.9100e-003	2.8700e-003	133.0526
<b>Total</b>	<b>0.7654</b>	<b>38.9360</b>	<b>9.4250</b>	<b>0.1665</b>	<b>5.0417</b>	<b>0.3080</b>	<b>5.3496</b>	<b>1.3790</b>	<b>0.2946</b>	<b>1.6736</b>		<b>18,190.8039</b>	<b>18,190.8039</b>	<b>0.7267</b>	<b>2.8669</b>	<b>19,063.3097</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2026**

**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					3.2627	0.0000	3.2627	1.6062	0.0000	1.6062			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>3.2627</b>	<b>0.1015</b>	<b>3.3642</b>	<b>1.6062</b>	<b>0.1015</b>	<b>1.7078</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**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	0.7097	38.9125	8.9809	0.1653	4.8895	0.3073	5.1968	1.3386	0.2940	1.6326			18,058.67 80	18,058.67 80	0.7238	2.8640	18,930.25 71
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0557	0.0235	0.4441	1.2600e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410			132.1259	132.1259	2.9100e-003	2.8700e-003	133.0526
<b>Total</b>	<b>0.7654</b>	<b>38.9360</b>	<b>9.4250</b>	<b>0.1665</b>	<b>5.0417</b>	<b>0.3080</b>	<b>5.3496</b>	<b>1.3790</b>	<b>0.2946</b>	<b>1.6736</b>			<b>18,190.80 39</b>	<b>18,190.80 39</b>	<b>0.7267</b>	<b>2.8669</b>	<b>19,063.30 97</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					7.2504	0.0000	7.2504	3.5694	0.0000	3.5694			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>7.2504</b>	<b>1.1309</b>	<b>8.3813</b>	<b>3.5694</b>	<b>1.0404</b>	<b>4.6098</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**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	0.6933	37.9062	8.9860	0.1615	4.8886	0.3001	5.1887	1.3383	0.2871	1.6254		17,649.5379	17,649.5379	0.7070	2.7993	18,501.3920
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0526	0.0215	0.4202	1.2200e-003	0.1521	6.4000e-004	0.1528	0.0404	5.9000e-004	0.0410		129.1441	129.1441	2.6600e-003	2.7200e-003	130.0209
<b>Total</b>	<b>0.7459</b>	<b>37.9277</b>	<b>9.4062</b>	<b>0.1627</b>	<b>5.0407</b>	<b>0.3007</b>	<b>5.3414</b>	<b>1.3786</b>	<b>0.2877</b>	<b>1.6663</b>		<b>17,778.6821</b>	<b>17,778.6821</b>	<b>0.7097</b>	<b>2.8020</b>	<b>18,631.4130</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2027**

**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					3.2627	0.0000	3.2627	1.6062	0.0000	1.6062			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>3.2627</b>	<b>0.1015</b>	<b>3.3642</b>	<b>1.6062</b>	<b>0.1015</b>	<b>1.7078</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**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	0.6933	37.9062	8.9860	0.1615	4.8886	0.3001	5.1887	1.3383	0.2871	1.6254			17,649.53 79	17,649.53 79	0.7070	2.7993	18,501.39 20
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0526	0.0215	0.4202	1.2200e-003	0.1521	6.4000e-004	0.1528	0.0404	5.9000e-004	0.0410			129.1441	129.1441	2.6600e-003	2.7200e-003	130.0209
<b>Total</b>	<b>0.7459</b>	<b>37.9277</b>	<b>9.4062</b>	<b>0.1627</b>	<b>5.0407</b>	<b>0.3007</b>	<b>5.3414</b>	<b>1.3786</b>	<b>0.2877</b>	<b>1.6663</b>			<b>17,778.68 21</b>	<b>17,778.68 21</b>	<b>0.7097</b>	<b>2.8020</b>	<b>18,631.41 30</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2467	9.1435	2.8114	0.0375	1.2888	0.0509	1.3397	0.3709	0.0487	0.4196		4,030.286 6	4,030.286 6	0.0980	0.5956	4,210.234 9
Worker	2.0566	0.8392	16.4294	0.0477	5.9487	0.0252	5.9738	1.5779	0.0232	1.6011		5,049.536 0	5,049.536 0	0.1040	0.1063	5,083.818 4
<b>Total</b>	<b>2.3033</b>	<b>9.9827</b>	<b>19.2408</b>	<b>0.0852</b>	<b>7.2374</b>	<b>0.0761</b>	<b>7.3135</b>	<b>1.9488</b>	<b>0.0719</b>	<b>2.0207</b>		<b>9,079.822 6</b>	<b>9,079.822 6</b>	<b>0.2020</b>	<b>0.7020</b>	<b>9,294.053 3</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2467	9.1435	2.8114	0.0375	1.2888	0.0509	1.3397	0.3709	0.0487	0.4196		4,030.286 6	4,030.286 6	0.0980	0.5956	4,210.234 9
Worker	2.0566	0.8392	16.4294	0.0477	5.9487	0.0252	5.9738	1.5779	0.0232	1.6011		5,049.536 0	5,049.536 0	0.1040	0.1063	5,083.818 4
<b>Total</b>	<b>2.3033</b>	<b>9.9827</b>	<b>19.2408</b>	<b>0.0852</b>	<b>7.2374</b>	<b>0.0761</b>	<b>7.3135</b>	<b>1.9488</b>	<b>0.0719</b>	<b>2.0207</b>		<b>9,079.822 6</b>	<b>9,079.822 6</b>	<b>0.2020</b>	<b>0.7020</b>	<b>9,294.053 3</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2395	8.9957	2.7723	0.0367	1.2887	0.0499	1.3385	0.3709	0.0477	0.4186		3,947.382 7	3,947.382 7	0.0961	0.5843	4,123.913 6
Worker	1.9456	0.7741	15.6507	0.0464	5.9487	0.0236	5.9723	1.5779	0.0218	1.5997		4,945.246 3	4,945.246 3	0.0956	0.1016	4,977.900 7
<b>Total</b>	<b>2.1851</b>	<b>9.7698</b>	<b>18.4230</b>	<b>0.0831</b>	<b>7.2373</b>	<b>0.0735</b>	<b>7.3108</b>	<b>1.9488</b>	<b>0.0695</b>	<b>2.0183</b>		<b>8,892.629 0</b>	<b>8,892.629 0</b>	<b>0.1918</b>	<b>0.6859</b>	<b>9,101.814 3</b>



Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2395	8.9957	2.7723	0.0367	1.2887	0.0499	1.3385	0.3709	0.0477	0.4186		3,947.382 7	3,947.382 7	0.0961	0.5843	4,123.913 6
Worker	1.9456	0.7741	15.6507	0.0464	5.9487	0.0236	5.9723	1.5779	0.0218	1.5997		4,945.246 3	4,945.246 3	0.0956	0.1016	4,977.900 7
<b>Total</b>	<b>2.1851</b>	<b>9.7698</b>	<b>18.4230</b>	<b>0.0831</b>	<b>7.2373</b>	<b>0.0735</b>	<b>7.3108</b>	<b>1.9488</b>	<b>0.0695</b>	<b>2.0183</b>		<b>8,892.629 0</b>	<b>8,892.629 0</b>	<b>0.1918</b>	<b>0.6859</b>	<b>9,101.814 3</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2328	8.8581	2.7385	0.0360	1.2886	0.0489	1.3374	0.3708	0.0467	0.4176		3,869.800 0	3,869.800 0	0.0944	0.5737	4,043.111 3
Worker	1.8372	0.7190	14.9799	0.0452	5.9487	0.0221	5.9708	1.5779	0.0204	1.5983		4,851.666 7	4,851.666 7	0.0883	0.0976	4,882.944 1
<b>Total</b>	<b>2.0700</b>	<b>9.5771</b>	<b>17.7184</b>	<b>0.0812</b>	<b>7.2372</b>	<b>0.0710</b>	<b>7.3082</b>	<b>1.9488</b>	<b>0.0671</b>	<b>2.0159</b>		<b>8,721.466 7</b>	<b>8,721.466 7</b>	<b>0.1827</b>	<b>0.6712</b>	<b>8,926.055 3</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2328	8.8581	2.7385	0.0360	1.2886	0.0489	1.3374	0.3708	0.0467	0.4176		3,869.800 0	3,869.800 0	0.0944	0.5737	4,043.111 3
Worker	1.8372	0.7190	14.9799	0.0452	5.9487	0.0221	5.9708	1.5779	0.0204	1.5983		4,851.666 7	4,851.666 7	0.0883	0.0976	4,882.944 1
<b>Total</b>	<b>2.0700</b>	<b>9.5771</b>	<b>17.7184</b>	<b>0.0812</b>	<b>7.2372</b>	<b>0.0710</b>	<b>7.3082</b>	<b>1.9488</b>	<b>0.0671</b>	<b>2.0159</b>		<b>8,721.466 7</b>	<b>8,721.466 7</b>	<b>0.1827</b>	<b>0.6712</b>	<b>8,926.055 3</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3915</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0352</b>	<b>0.0138</b>	<b>0.2873</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>93.0627</b>	<b>93.0627</b>	<b>1.6900e-003</b>	<b>1.8700e-003</b>	<b>93.6626</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7568</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0352</b>	<b>0.0138</b>	<b>0.2873</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>93.0627</b>	<b>93.0627</b>	<b>1.6900e-003</b>	<b>1.8700e-003</b>	<b>93.6626</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8609</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0332</b>	<b>0.0129</b>	<b>0.2765</b>	<b>8.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>91.4849</b>	<b>91.4849</b>	<b>1.5700e-003</b>	<b>1.8100e-003</b>	<b>92.0627</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7568</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0332</b>	<b>0.0129</b>	<b>0.2765</b>	<b>8.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>91.4849</b>	<b>91.4849</b>	<b>1.5700e-003</b>	<b>1.8100e-003</b>	<b>92.0627</b>

Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	224.0875					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>224.2183</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3457	0.1342	2.8756	8.8000e-003	1.1867	4.1400e-003	1.1908	0.3148	3.8100e-003	0.3186		951.4433	951.4433	0.0163	0.0188	957.4520
<b>Total</b>	<b>0.3457</b>	<b>0.1342</b>	<b>2.8756</b>	<b>8.8000e-003</b>	<b>1.1867</b>	<b>4.1400e-003</b>	<b>1.1908</b>	<b>0.3148</b>	<b>3.8100e-003</b>	<b>0.3186</b>		<b>951.4433</b>	<b>951.4433</b>	<b>0.0163</b>	<b>0.0188</b>	<b>957.4520</b>



Innovation Park PUD - Part 2 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	224.0875					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>224.1172</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3457	0.1342	2.8756	8.8000e-003	1.1867	4.1400e-003	1.1908	0.3148	3.8100e-003	0.3186		951.4433	951.4433	0.0163	0.0188	957.4520
<b>Total</b>	<b>0.3457</b>	<b>0.1342</b>	<b>2.8756</b>	<b>8.8000e-003</b>	<b>1.1867</b>	<b>4.1400e-003</b>	<b>1.1908</b>	<b>0.3148</b>	<b>3.8100e-003</b>	<b>0.3186</b>		<b>951.4433</b>	<b>951.4433</b>	<b>0.0163</b>	<b>0.0188</b>	<b>957.4520</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park PUD - Part 3**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	91.50	1000sqft	1.83	91,476.00	0
Elementary School	65.30	1000sqft	1.50	65,340.00	0
General Light Industry	9.30	1000sqft	0.43	9,256.50	0
Parking Lot	435.60	1000sqft	10.00	435,600.00	0
City Park	1.80	Acre	1.80	78,408.00	0
Health Club	114.30	1000sqft	2.63	114,345.00	0
Hotel	38.00	Room	0.94	54,450.00	0
Apartments Mid Rise	424.00	Dwelling Unit	5.92	433,759.00	1132
Condo/townhouse	119.00	Dwelling Unit	4.58	118,500.00	318
Single Family Housing	77.00	Dwelling Unit	6.40	138,150.00	206
Strip Mall	49.50	1000sqft	0.96	49,549.50	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2034
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - One quarter build out, construction only

Land Use - 1/4 of land use

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Phase - Adjusted for 4 year schedule

Trips and VMT -

Demolition -

Grading - Acre graded = site acreage

Architectural Coating -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	740.00	784.00
tblConstructionPhase	NumDays	75.00	78.00
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	30.00	28.00
tblGrading	AcresOfGrading	234.00	37.00
tblGrading	AcresOfGrading	42.00	0.00
tblGrading	MaterialExported	0.00	56,930.00
tblGrading	MaterialImported	0.00	111,420.00
tblLandUse	LandUseSquareFeet	91,500.00	91,476.00
tblLandUse	LandUseSquareFeet	65,300.00	65,340.00
tblLandUse	LandUseSquareFeet	9,300.00	9,256.50
tblLandUse	LandUseSquareFeet	114,300.00	114,345.00
tblLandUse	LandUseSquareFeet	55,176.00	54,450.00
tblLandUse	LandUseSquareFeet	424,000.00	433,759.00
tblLandUse	LandUseSquareFeet	119,000.00	118,500.00
tblLandUse	LandUseSquareFeet	138,600.00	138,150.00
tblLandUse	LandUseSquareFeet	49,500.00	49,549.50

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LotAcreage	2.10	1.83
tblLandUse	LotAcreage	0.21	0.43
tblLandUse	LotAcreage	2.62	2.63
tblLandUse	LotAcreage	1.27	0.94
tblLandUse	LotAcreage	11.16	5.92
tblLandUse	LotAcreage	7.44	4.58
tblLandUse	LotAcreage	25.00	6.40
tblLandUse	LotAcreage	1.14	0.96

**2.0 Emissions Summary**

**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					
2030	3.9516	48.0139	32.0635	0.2167	18.2032	0.7587	18.6403	9.9670	0.7470	10.4041	0.0000	23,257.38 36	23,257.38 36	0.9419	2.5281	24,034.29 87
2031	3.9371	47.3996	32.7737	0.2140	11.8213	0.7534	12.5746	4.7583	0.7419	5.5001	0.0000	22,969.90 63	22,969.90 63	0.9317	2.4827	23,733.04 88
2032	3.0661	17.0644	32.3411	0.1075	7.2370	0.2125	7.4495	1.9487	0.2091	2.1578	0.0000	11,208.91 72	11,208.91 72	0.2774	0.6365	11,405.53 50
2033	2.9823	16.9595	31.9751	0.1063	7.2369	0.2108	7.4477	1.9487	0.2074	2.1561	0.0000	11,103.47 18	11,103.47 18	0.2719	0.6279	11,297.37 65
2034	232.9506	16.8617	31.6509	0.1053	7.2369	0.3309	7.4460	1.9486	0.3309	2.1545	0.0000	11,009.33 35	11,009.33 35	0.2668	0.6201	11,200.79 99
<b>Maximum</b>	<b>232.9506</b>	<b>48.0139</b>	<b>32.7737</b>	<b>0.2167</b>	<b>18.2032</b>	<b>0.7587</b>	<b>18.6403</b>	<b>9.9670</b>	<b>0.7470</b>	<b>10.4041</b>	<b>0.0000</b>	<b>23,257.38 36</b>	<b>23,257.38 36</b>	<b>0.9419</b>	<b>2.5281</b>	<b>24,034.29 87</b>



Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.0697	0.5889	51.0974	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0882	0.0000	94.4838
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	25.9928	20.3305	189.9064	0.3863	49.1254	0.2276	49.3530	13.0855	0.2125	13.2981		42,447.6102	42,447.6102	2.5945	1.8837	43,073.8046
<b>Total</b>	<b>54.5641</b>	<b>25.3503</b>	<b>243.8824</b>	<b>0.4164</b>	<b>49.1254</b>	<b>0.8582</b>	<b>49.9835</b>	<b>13.0855</b>	<b>0.8431</b>	<b>13.9286</b>	<b>0.0000</b>	<b>48,012.9050</b>	<b>48,012.9050</b>	<b>2.7876</b>	<b>1.9840</b>	<b>48,673.8279</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	28.0697	0.5889	51.0974	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0882	0.0000	94.4838
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	25.9928	20.3305	189.9064	0.3863	49.1254	0.2276	49.3530	13.0855	0.2125	13.2981		42,447.6102	42,447.6102	2.5945	1.8837	43,073.8046
<b>Total</b>	<b>54.5641</b>	<b>25.3503</b>	<b>243.8824</b>	<b>0.4164</b>	<b>49.1254</b>	<b>0.8582</b>	<b>49.9835</b>	<b>13.0855</b>	<b>0.8431</b>	<b>13.9286</b>	<b>0.0000</b>	<b>48,012.9050</b>	<b>48,012.9050</b>	<b>2.7876</b>	<b>1.9840</b>	<b>48,673.8279</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2030	9/6/2030	5	50	
2	Site Preparation	Site Preparation	9/9/2030	10/16/2030	5	28	
3	Grading	Grading	10/17/2030	2/3/2031	5	78	
4	Building Construction	Building Construction	2/4/2031	2/3/2034	5	784	
5	Paving	Paving	2/6/2034	4/19/2034	5	53	
6	Architectural Coating	Architectural Coating	4/20/2034	7/3/2034	5	53	

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

**Acres of Grading (Grading Phase): 37**

**Acres of Paving: 10**

**Residential Indoor: 1,398,078; Residential Outdoor: 466,026; Non-Residential Indoor: 576,626; Non-Residential Outdoor: 192,209; Striped Parking Area: 26,136 (Architectural Coating – sqft)**

**OffRoad Equipment**

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



Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	973.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	21,044.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	782.00	214.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	156.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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					4.3928	0.0000	4.3928	0.6651	0.0000	0.6651			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>	<b>4.3928</b>	<b>0.3511</b>	<b>4.7439</b>	<b>0.6651</b>	<b>0.3511</b>	<b>1.0162</b>		<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0452	2.4632	0.6254	0.0105	0.3389	0.0195	0.3584	0.0928	0.0187	0.1114		1,148.4572	1,148.4572	0.0468	0.1822	1,203.9140
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0784</b>	<b>2.4761</b>	<b>0.9019</b>	<b>0.0114</b>	<b>0.4530</b>	<b>0.0199</b>	<b>0.4729</b>	<b>0.1230</b>	<b>0.0190</b>	<b>0.1420</b>		<b>1,239.9421</b>	<b>1,239.9421</b>	<b>0.0483</b>	<b>0.1840</b>	<b>1,295.9767</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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					1.9768	0.0000	1.9768	0.2993	0.0000	0.2993			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0462		0.0616	0.0616		0.0616	0.0616	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0462</b>	<b>1.9768</b>	<b>0.0616</b>	<b>2.0384</b>	<b>0.2993</b>	<b>0.0616</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0452	2.4632	0.6254	0.0105	0.3389	0.0195	0.3584	0.0928	0.0187	0.1114		1,148.4572	1,148.4572	0.0468	0.1822	1,203.9140
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0784</b>	<b>2.4761</b>	<b>0.9019</b>	<b>0.0114</b>	<b>0.4530</b>	<b>0.0199</b>	<b>0.4729</b>	<b>0.1230</b>	<b>0.0190</b>	<b>0.1420</b>		<b>1,239.9421</b>	<b>1,239.9421</b>	<b>0.0483</b>	<b>0.1840</b>	<b>1,295.9767</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.0663</b>	<b>0.4367</b>	<b>18.5029</b>	<b>9.9307</b>	<b>0.4367</b>	<b>10.3673</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0399	0.0155	0.3318	1.0200e-003	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		109.7819	109.7819	1.8800e-003	2.1700e-003	110.4752
<b>Total</b>	<b>0.0399</b>	<b>0.0155</b>	<b>0.3318</b>	<b>1.0200e-003</b>	<b>0.1369</b>	<b>4.8000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.4000e-004</b>	<b>0.0368</b>		<b>109.7819</b>	<b>109.7819</b>	<b>1.8800e-003</b>	<b>2.1700e-003</b>	<b>110.4752</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>8.1298</b>	<b>0.0621</b>	<b>8.1919</b>	<b>4.4688</b>	<b>0.0621</b>	<b>4.5309</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0399	0.0155	0.3318	1.0200e-003	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		109.7819	109.7819	1.8800e-003	2.1700e-003	110.4752
<b>Total</b>	<b>0.0399</b>	<b>0.0155</b>	<b>0.3318</b>	<b>1.0200e-003</b>	<b>0.1369</b>	<b>4.8000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.4000e-004</b>	<b>0.0368</b>		<b>109.7819</b>	<b>109.7819</b>	<b>1.8800e-003</b>	<b>2.1700e-003</b>	<b>110.4752</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					6.9715	0.0000	6.9715	3.4321	0.0000	3.4321			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>6.9715</b>	<b>0.4879</b>	<b>7.4594</b>	<b>3.4321</b>	<b>0.4879</b>	<b>3.9201</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.6266	34.1505	8.6710	0.1456	4.6983	0.2702	4.9685	1.2860	0.2585	1.5445		15,922.2951	15,922.2951	0.6483	2.5257	16,691.1522
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0172	0.3687	1.1300e-003	0.1521	5.3000e-004	0.1527	0.0404	4.9000e-004	0.0408		121.9799	121.9799	2.0900e-003	2.4100e-003	122.7503
<b>Total</b>	<b>0.6709</b>	<b>34.1677</b>	<b>9.0397</b>	<b>0.1467</b>	<b>4.8504</b>	<b>0.2708</b>	<b>5.1212</b>	<b>1.3263</b>	<b>0.2590</b>	<b>1.5854</b>		<b>16,044.2750</b>	<b>16,044.2750</b>	<b>0.6504</b>	<b>2.5281</b>	<b>16,813.9024</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					3.1372	0.0000	3.1372	1.5445	0.0000	1.5445			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>3.1372</b>	<b>0.1015</b>	<b>3.2387</b>	<b>1.5445</b>	<b>0.1015</b>	<b>1.6460</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.6266	34.1505	8.6710	0.1456	4.6983	0.2702	4.9685	1.2860	0.2585	1.5445		15,922.2951	15,922.2951	0.6483	2.5257	16,691.1522
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0172	0.3687	1.1300e-003	0.1521	5.3000e-004	0.1527	0.0404	4.9000e-004	0.0408		121.9799	121.9799	2.0900e-003	2.4100e-003	122.7503
<b>Total</b>	<b>0.6709</b>	<b>34.1677</b>	<b>9.0397</b>	<b>0.1467</b>	<b>4.8504</b>	<b>0.2708</b>	<b>5.1212</b>	<b>1.3263</b>	<b>0.2590</b>	<b>1.5854</b>		<b>16,044.2750</b>	<b>16,044.2750</b>	<b>0.6504</b>	<b>2.5281</b>	<b>16,813.9024</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					6.9715	0.0000	6.9715	3.4321	0.0000	3.4321			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>6.9715</b>	<b>0.4879</b>	<b>7.4594</b>	<b>3.4321</b>	<b>0.4879</b>	<b>3.9201</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.6147	33.5372	8.6792	0.1430	4.6977	0.2649	4.9626	1.2858	0.2535	1.5392		15,636.6844	15,636.6844	0.6382	2.4804	16,391.7939
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0418	0.0162	0.3561	1.1000e-003	0.1521	5.0000e-004	0.1526	0.0404	4.6000e-004	0.0408		120.1134	120.1134	1.9500e-003	2.3400e-003	120.8586
<b>Total</b>	<b>0.6565</b>	<b>33.5534</b>	<b>9.0353</b>	<b>0.1441</b>	<b>4.8498</b>	<b>0.2654</b>	<b>5.1152</b>	<b>1.3261</b>	<b>0.2539</b>	<b>1.5800</b>		<b>15,756.7977</b>	<b>15,756.7977</b>	<b>0.6402</b>	<b>2.4827</b>	<b>16,512.6525</b>



Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					3.1372	0.0000	3.1372	1.5445	0.0000	1.5445			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>3.1372</b>	<b>0.1015</b>	<b>3.2387</b>	<b>1.5445</b>	<b>0.1015</b>	<b>1.6460</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.6147	33.5372	8.6792	0.1430	4.6977	0.2649	4.9626	1.2858	0.2535	1.5392		15,636.6844	15,636.6844	0.6382	2.4804	16,391.7939
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0418	0.0162	0.3561	1.1000e-003	0.1521	5.0000e-004	0.1526	0.0404	4.6000e-004	0.0408		120.1134	120.1134	1.9500e-003	2.3400e-003	120.8586
<b>Total</b>	<b>0.6565</b>	<b>33.5534</b>	<b>9.0353</b>	<b>0.1441</b>	<b>4.8498</b>	<b>0.2654</b>	<b>5.1152</b>	<b>1.3261</b>	<b>0.2539</b>	<b>1.5800</b>		<b>15,756.7977</b>	<b>15,756.7977</b>	<b>0.6402</b>	<b>2.4827</b>	<b>16,512.6525</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2217	8.6228	2.6934	0.0348	1.2884	0.0470	1.3353	0.3708	0.0449	0.4157		3,734.8448	3,734.8448	0.0914	0.5551	3,902.5528
Worker	1.6325	0.6330	13.9232	0.0432	5.9487	0.0194	5.9681	1.5779	0.0179	1.5958		4,696.4322	4,696.4322	0.0761	0.0914	4,725.5697
<b>Total</b>	<b>1.8542</b>	<b>9.2558</b>	<b>16.6167</b>	<b>0.0779</b>	<b>7.2371</b>	<b>0.0664</b>	<b>7.3034</b>	<b>1.9487</b>	<b>0.0628</b>	<b>2.0115</b>		<b>8,431.2771</b>	<b>8,431.2771</b>	<b>0.1675</b>	<b>0.6465</b>	<b>8,628.1225</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2217	8.6228	2.6934	0.0348	1.2884	0.0470	1.3353	0.3708	0.0449	0.4157		3,734.8448	3,734.8448	0.0914	0.5551	3,902.5528
Worker	1.6325	0.6330	13.9232	0.0432	5.9487	0.0194	5.9681	1.5779	0.0179	1.5958		4,696.4322	4,696.4322	0.0761	0.0914	4,725.5697
<b>Total</b>	<b>1.8542</b>	<b>9.2558</b>	<b>16.6167</b>	<b>0.0779</b>	<b>7.2371</b>	<b>0.0664</b>	<b>7.3034</b>	<b>1.9487</b>	<b>0.0628</b>	<b>2.0115</b>		<b>8,431.2771</b>	<b>8,431.2771</b>	<b>0.1675</b>	<b>0.6465</b>	<b>8,628.1225</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2174	8.5295	2.6818	0.0342	1.2883	0.0462	1.3345	0.3707	0.0442	0.4149		3,678.8481	3,678.8481	0.0901	0.5474	3,844.2354
Worker	1.5396	0.6003	13.5023	0.0423	5.9487	0.0182	5.9669	1.5779	0.0167	1.5947		4,632.5223	4,632.5223	0.0710	0.0891	4,660.8468
<b>Total</b>	<b>1.7569</b>	<b>9.1298</b>	<b>16.1841</b>	<b>0.0766</b>	<b>7.2370</b>	<b>0.0644</b>	<b>7.3014</b>	<b>1.9487</b>	<b>0.0609</b>	<b>2.0096</b>		<b>8,311.3704</b>	<b>8,311.3704</b>	<b>0.1611</b>	<b>0.6365</b>	<b>8,505.0821</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2174	8.5295	2.6818	0.0342	1.2883	0.0462	1.3345	0.3707	0.0442	0.4149		3,678.8481	3,678.8481	0.0901	0.5474	3,844.2354
Worker	1.5396	0.6003	13.5023	0.0423	5.9487	0.0182	5.9669	1.5779	0.0167	1.5947		4,632.5223	4,632.5223	0.0710	0.0891	4,660.8468
<b>Total</b>	<b>1.7569</b>	<b>9.1298</b>	<b>16.1841</b>	<b>0.0766</b>	<b>7.2370</b>	<b>0.0644</b>	<b>7.3014</b>	<b>1.9487</b>	<b>0.0609</b>	<b>2.0096</b>		<b>8,311.3704</b>	<b>8,311.3704</b>	<b>0.1611</b>	<b>0.6365</b>	<b>8,505.0821</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2033**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2137	8.4507	2.6741	0.0338	1.2883	0.0456	1.3338	0.3707	0.0436	0.4143		3,629.3202	3,629.3202	0.0890	0.5407	3,792.6581
Worker	1.4594	0.5742	13.1441	0.0416	5.9487	0.0171	5.9658	1.5779	0.0157	1.5937		4,576.6048	4,576.6048	0.0666	0.0872	4,604.2656
<b>Total</b>	<b>1.6731</b>	<b>9.0249</b>	<b>15.8182</b>	<b>0.0754</b>	<b>7.2369</b>	<b>0.0626</b>	<b>7.2996</b>	<b>1.9487</b>	<b>0.0593</b>	<b>2.0080</b>		<b>8,205.9250</b>	<b>8,205.9250</b>	<b>0.1556</b>	<b>0.6279</b>	<b>8,396.9237</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2033**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2137	8.4507	2.6741	0.0338	1.2883	0.0456	1.3338	0.3707	0.0436	0.4143		3,629.3202	3,629.3202	0.0890	0.5407	3,792.6581
Worker	1.4594	0.5742	13.1441	0.0416	5.9487	0.0171	5.9658	1.5779	0.0157	1.5937		4,576.6048	4,576.6048	0.0666	0.0872	4,604.2656
<b>Total</b>	<b>1.6731</b>	<b>9.0249</b>	<b>15.8182</b>	<b>0.0754</b>	<b>7.2369</b>	<b>0.0626</b>	<b>7.2996</b>	<b>1.9487</b>	<b>0.0593</b>	<b>2.0080</b>		<b>8,205.9250</b>	<b>8,205.9250</b>	<b>0.1556</b>	<b>0.6279</b>	<b>8,396.9237</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2034**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2104	8.3747	2.6680	0.0334	1.2882	0.0449	1.3331	0.3707	0.0430	0.4137		3,584.0006	3,584.0006	0.0879	0.5344	3,745.4549
Worker	1.3847	0.5524	12.8259	0.0409	5.9487	0.0161	5.9647	1.5779	0.0148	1.5927		4,527.7862	4,527.7862	0.0627	0.0857	4,554.8921
<b>Total</b>	<b>1.5952</b>	<b>8.9271</b>	<b>15.4939</b>	<b>0.0743</b>	<b>7.2369</b>	<b>0.0610</b>	<b>7.2979</b>	<b>1.9486</b>	<b>0.0577</b>	<b>2.0064</b>		<b>8,111.7868</b>	<b>8,111.7868</b>	<b>0.1506</b>	<b>0.6201</b>	<b>8,300.3471</b>



Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2104	8.3747	2.6680	0.0334	1.2882	0.0449	1.3331	0.3707	0.0430	0.4137		3,584.0006	3,584.0006	0.0879	0.5344	3,745.4549
Worker	1.3847	0.5524	12.8259	0.0409	5.9487	0.0161	5.9647	1.5779	0.0148	1.5927		4,527.7862	4,527.7862	0.0627	0.0857	4,554.8921
<b>Total</b>	<b>1.5952</b>	<b>8.9271</b>	<b>15.4939</b>	<b>0.0743</b>	<b>7.2369</b>	<b>0.0610</b>	<b>7.2979</b>	<b>1.9486</b>	<b>0.0577</b>	<b>2.0064</b>		<b>8,111.7868</b>	<b>8,111.7868</b>	<b>0.1506</b>	<b>0.6201</b>	<b>8,300.3471</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2034**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.4943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8789</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0266	0.0106	0.2460	7.9000e-004	0.1141	3.1000e-004	0.1144	0.0303	2.8000e-004	0.0306		86.8501	86.8501	1.2000e-003	1.6400e-003	87.3701
<b>Total</b>	<b>0.0266</b>	<b>0.0106</b>	<b>0.2460</b>	<b>7.9000e-004</b>	<b>0.1141</b>	<b>3.1000e-004</b>	<b>0.1144</b>	<b>0.0303</b>	<b>2.8000e-004</b>	<b>0.0306</b>		<b>86.8501</b>	<b>86.8501</b>	<b>1.2000e-003</b>	<b>1.6400e-003</b>	<b>87.3701</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.4943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7748</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0266	0.0106	0.2460	7.9000e-004	0.1141	3.1000e-004	0.1144	0.0303	2.8000e-004	0.0306		86.8501	86.8501	1.2000e-003	1.6400e-003	87.3701
<b>Total</b>	<b>0.0266</b>	<b>0.0106</b>	<b>0.2460</b>	<b>7.9000e-004</b>	<b>0.1141</b>	<b>3.1000e-004</b>	<b>0.1144</b>	<b>0.0303</b>	<b>2.8000e-004</b>	<b>0.0306</b>		<b>86.8501</b>	<b>86.8501</b>	<b>1.2000e-003</b>	<b>1.6400e-003</b>	<b>87.3701</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2034**

**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	232.5436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>232.6744</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2762	0.1102	2.5586	8.1700e-003	1.1867	3.2100e-003	1.1899	0.3148	2.9500e-003	0.3177		903.2412	903.2412	0.0125	0.0171	908.6486
<b>Total</b>	<b>0.2762</b>	<b>0.1102</b>	<b>2.5586</b>	<b>8.1700e-003</b>	<b>1.1867</b>	<b>3.2100e-003</b>	<b>1.1899</b>	<b>0.3148</b>	<b>2.9500e-003</b>	<b>0.3177</b>		<b>903.2412</b>	<b>903.2412</b>	<b>0.0125</b>	<b>0.0171</b>	<b>908.6486</b>

Innovation Park PUD - Part 3 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2034**

**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	232.5436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>232.5733</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2762	0.1102	2.5586	8.1700e-003	1.1867	3.2100e-003	1.1899	0.3148	2.9500e-003	0.3177		903.2412	903.2412	0.0125	0.0171	908.6486
<b>Total</b>	<b>0.2762</b>	<b>0.1102</b>	<b>2.5586</b>	<b>8.1700e-003</b>	<b>1.1867</b>	<b>3.2100e-003</b>	<b>1.1899</b>	<b>0.3148</b>	<b>2.9500e-003</b>	<b>0.3177</b>		<b>903.2412</b>	<b>903.2412</b>	<b>0.0125</b>	<b>0.0171</b>	<b>908.6486</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park PUD - Part 4**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	91.50	1000sqft	1.83	91,476.00	0
Elementary School	65.30	1000sqft	1.50	65,340.00	0
General Light Industry	9.30	1000sqft	0.43	9,256.50	0
Parking Lot	435.60	1000sqft	10.00	435,600.00	0
City Park	1.80	Acre	1.80	78,408.00	0
Health Club	114.30	1000sqft	2.63	114,345.00	0
Hotel	38.00	Room	0.94	54,450.00	0
Apartments Mid Rise	424.00	Dwelling Unit	5.92	433,759.00	1132
Condo/townhouse	119.00	Dwelling Unit	4.58	118,500.00	318
Single Family Housing	77.00	Dwelling Unit	6.40	138,150.00	206
Strip Mall	49.50	1000sqft	0.96	49,549.50	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2040
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - One quarter build out, construction only

Land Use - 1/4 of land use

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Phase - Adjusted for 4 year schedule

Trips and VMT -

Demolition -

Grading - Acre graded = site acreage

Architectural Coating -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	740.00	784.00
tblConstructionPhase	NumDays	75.00	78.00
tblConstructionPhase	NumDays	55.00	53.00
tblConstructionPhase	NumDays	30.00	28.00
tblGrading	AcresOfGrading	234.00	37.00
tblGrading	AcresOfGrading	42.00	0.00
tblGrading	MaterialExported	0.00	56,930.00
tblGrading	MaterialImported	0.00	111,420.00
tblLandUse	LandUseSquareFeet	91,500.00	91,476.00
tblLandUse	LandUseSquareFeet	65,300.00	65,340.00
tblLandUse	LandUseSquareFeet	9,300.00	9,256.50
tblLandUse	LandUseSquareFeet	114,300.00	114,345.00
tblLandUse	LandUseSquareFeet	55,176.00	54,450.00
tblLandUse	LandUseSquareFeet	424,000.00	433,759.00
tblLandUse	LandUseSquareFeet	119,000.00	118,500.00
tblLandUse	LandUseSquareFeet	138,600.00	138,150.00
tblLandUse	LandUseSquareFeet	49,500.00	49,549.50



Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LotAcreage	2.10	1.83
tblLandUse	LotAcreage	0.21	0.43
tblLandUse	LotAcreage	2.62	2.63
tblLandUse	LotAcreage	1.27	0.94
tblLandUse	LotAcreage	11.16	5.92
tblLandUse	LotAcreage	7.44	4.58
tblLandUse	LotAcreage	25.00	6.40
tblLandUse	LotAcreage	1.14	0.96

**2.0 Emissions Summary**

**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					
2034	3.9043	45.9688	32.0629	0.2078	18.2032	0.7409	18.6402	9.9670	0.7299	10.4040	0.0000	22,286.90 46	22,286.90 46	0.9071	2.3748	23,017.27 28
2035	3.5267	41.3386	31.5630	0.2061	11.8196	0.5637	12.3833	4.7576	0.5529	5.3105	0.0000	22,105.38 19	22,105.38 19	0.8658	2.3461	22,826.15 89
2036	2.7406	16.0043	31.3358	0.1043	7.2368	0.1499	7.3867	1.9486	0.1468	2.0954	0.0000	10,927.24 94	10,927.24 94	0.2542	0.6134	11,116.38 52
2037	2.7406	16.0043	31.3358	0.1043	7.2368	0.1499	7.3867	1.9486	0.1468	2.0954	0.0000	10,927.24 94	10,927.24 94	0.2542	0.6134	11,116.38 52
2038	232.9241	16.0043	31.3358	0.1043	7.2368	0.1877	7.3867	1.9486	0.1877	2.0954	0.0000	10,927.24 94	10,927.24 94	0.2542	0.6134	11,116.38 52
<b>Maximum</b>	<b>232.9241</b>	<b>45.9688</b>	<b>32.0629</b>	<b>0.2078</b>	<b>18.2032</b>	<b>0.7409</b>	<b>18.6402</b>	<b>9.9670</b>	<b>0.7299</b>	<b>10.4040</b>	<b>0.0000</b>	<b>22,286.90 46</b>	<b>22,286.90 46</b>	<b>0.9071</b>	<b>2.3748</b>	<b>23,017.27 28</b>



Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.0669	0.5886	51.0078	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0881	0.0000	94.4817
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	22.4992	18.1252	178.3282	0.3622	49.0956	0.1794	49.2750	13.0730	0.1677	13.2407		40,483.2460	40,483.2460	2.4281	1.7726	41,072.1961
<b>Total</b>	<b>51.0677</b>	<b>23.1447</b>	<b>232.2146</b>	<b>0.3923</b>	<b>49.0956</b>	<b>0.8100</b>	<b>49.9056</b>	<b>13.0730</b>	<b>0.7983</b>	<b>13.8713</b>	<b>0.0000</b>	<b>46,048.5408</b>	<b>46,048.5408</b>	<b>2.6211</b>	<b>1.8730</b>	<b>46,672.2173</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	28.0669	0.5886	51.0078	2.7100e-003		0.2840	0.2840		0.2840	0.2840	0.0000	92.2787	92.2787	0.0881	0.0000	94.4817
Energy	0.5017	4.4310	2.8786	0.0274		0.3466	0.3466		0.3466	0.3466		5,473.0161	5,473.0161	0.1049	0.1003	5,505.5395
Mobile	22.4992	18.1252	178.3282	0.3622	49.0956	0.1794	49.2750	13.0730	0.1677	13.2407		40,483.2460	40,483.2460	2.4281	1.7726	41,072.1961
<b>Total</b>	<b>51.0677</b>	<b>23.1447</b>	<b>232.2146</b>	<b>0.3923</b>	<b>49.0956</b>	<b>0.8100</b>	<b>49.9056</b>	<b>13.0730</b>	<b>0.7983</b>	<b>13.8713</b>	<b>0.0000</b>	<b>46,048.5408</b>	<b>46,048.5408</b>	<b>2.6211</b>	<b>1.8730</b>	<b>46,672.2173</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/3/2034	9/8/2034	5	50	
2	Site Preparation	Site Preparation	9/11/2034	10/18/2034	5	28	
3	Grading	Grading	10/19/2034	2/5/2035	5	78	
4	Building Construction	Building Construction	2/6/2035	2/5/2038	5	784	
5	Paving	Paving	2/8/2038	4/21/2038	5	53	
6	Architectural Coating	Architectural Coating	4/22/2038	7/5/2038	5	53	

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

**Acres of Grading (Grading Phase): 37**

**Acres of Paving: 10**

**Residential Indoor: 1,398,078; Residential Outdoor: 466,026; Non-Residential Indoor: 576,626; Non-Residential Outdoor: 192,209; Striped Parking Area: 26,136 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	973.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	21,044.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	782.00	214.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	156.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2034**

**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					4.3928	0.0000	4.3928	0.6651	0.0000	0.6651			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>	<b>4.3928</b>	<b>0.3511</b>	<b>4.7439</b>	<b>0.6651</b>	<b>0.3511</b>	<b>1.0162</b>		<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0424	2.3160	0.6283	9.8700e-003	0.3387	0.0182	0.3570	0.0927	0.0174	0.1101		1,078.9034	1,078.9034	0.0443	0.1711	1,131.0084
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0266	0.0106	0.2460	7.9000e-004	0.1141	3.1000e-004	0.1144	0.0303	2.8000e-004	0.0306		86.8501	86.8501	1.2000e-003	1.6400e-003	87.3701
<b>Total</b>	<b>0.0690</b>	<b>2.3266</b>	<b>0.8743</b>	<b>0.0107</b>	<b>0.4528</b>	<b>0.0185</b>	<b>0.4714</b>	<b>0.1230</b>	<b>0.0177</b>	<b>0.1407</b>		<b>1,165.7535</b>	<b>1,165.7535</b>	<b>0.0455</b>	<b>0.1728</b>	<b>1,218.3784</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2034**

**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					1.9768	0.0000	1.9768	0.2993	0.0000	0.2993			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0462		0.0616	0.0616		0.0616	0.0616	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0462</b>	<b>1.9768</b>	<b>0.0616</b>	<b>2.0384</b>	<b>0.2993</b>	<b>0.0616</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0424	2.3160	0.6283	9.8700e-003	0.3387	0.0182	0.3570	0.0927	0.0174	0.1101		1,078.9034	1,078.9034	0.0443	0.1711	1,131.0084
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0266	0.0106	0.2460	7.9000e-004	0.1141	3.1000e-004	0.1144	0.0303	2.8000e-004	0.0306		86.8501	86.8501	1.2000e-003	1.6400e-003	87.3701
<b>Total</b>	<b>0.0690</b>	<b>2.3266</b>	<b>0.8743</b>	<b>0.0107</b>	<b>0.4528</b>	<b>0.0185</b>	<b>0.4714</b>	<b>0.1230</b>	<b>0.0177</b>	<b>0.1407</b>		<b>1,165.7535</b>	<b>1,165.7535</b>	<b>0.0455</b>	<b>0.1728</b>	<b>1,218.3784</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2034**

**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	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.0663</b>	<b>0.4367</b>	<b>18.5029</b>	<b>9.9307</b>	<b>0.4367</b>	<b>10.3673</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0319	0.0127	0.2952	9.4000e-004	0.1369	3.7000e-004	0.1373	0.0363	3.4000e-004	0.0367		104.2201	104.2201	1.4400e-003	1.9700e-003	104.8441
<b>Total</b>	<b>0.0319</b>	<b>0.0127</b>	<b>0.2952</b>	<b>9.4000e-004</b>	<b>0.1369</b>	<b>3.7000e-004</b>	<b>0.1373</b>	<b>0.0363</b>	<b>3.4000e-004</b>	<b>0.0367</b>		<b>104.2201</b>	<b>104.2201</b>	<b>1.4400e-003</b>	<b>1.9700e-003</b>	<b>104.8441</b>



Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2034**

**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	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>8.1298</b>	<b>0.0621</b>	<b>8.1919</b>	<b>4.4688</b>	<b>0.0621</b>	<b>4.5309</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0319	0.0127	0.2952	9.4000e-004	0.1369	3.7000e-004	0.1373	0.0363	3.4000e-004	0.0367		104.2201	104.2201	1.4400e-003	1.9700e-003	104.8441
<b>Total</b>	<b>0.0319</b>	<b>0.0127</b>	<b>0.2952</b>	<b>9.4000e-004</b>	<b>0.1369</b>	<b>3.7000e-004</b>	<b>0.1373</b>	<b>0.0363</b>	<b>3.4000e-004</b>	<b>0.0367</b>		<b>104.2201</b>	<b>104.2201</b>	<b>1.4400e-003</b>	<b>1.9700e-003</b>	<b>104.8441</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2034**

**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					6.9715	0.0000	6.9715	3.4321	0.0000	3.4321			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>6.9715</b>	<b>0.4879</b>	<b>7.4594</b>	<b>3.4321</b>	<b>0.4879</b>	<b>3.9201</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.5882	32.1085	8.7110	0.1368	4.6963	0.2525	4.9488	1.2853	0.2416	1.5269		14,957.9959	14,957.9959	0.6140	2.3726	15,680.3831
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0354	0.0141	0.3280	1.0500e-003	0.1521	4.1000e-004	0.1526	0.0404	3.8000e-004	0.0407		115.8002	115.8002	1.6000e-003	2.1900e-003	116.4934
<b>Total</b>	<b>0.6236</b>	<b>32.1227</b>	<b>9.0390</b>	<b>0.1378</b>	<b>4.8485</b>	<b>0.2529</b>	<b>5.1014</b>	<b>1.3256</b>	<b>0.2420</b>	<b>1.5676</b>		<b>15,073.7961</b>	<b>15,073.7961</b>	<b>0.6156</b>	<b>2.3748</b>	<b>15,796.8765</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2034**

**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					3.1372	0.0000	3.1372	1.5445	0.0000	1.5445			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>3.1372</b>	<b>0.1015</b>	<b>3.2387</b>	<b>1.5445</b>	<b>0.1015</b>	<b>1.6460</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**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	0.5882	32.1085	8.7110	0.1368	4.6963	0.2525	4.9488	1.2853	0.2416	1.5269		14,957.9959	14,957.9959	0.6140	2.3726	15,680.3831
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0354	0.0141	0.3280	1.0500e-003	0.1521	4.1000e-004	0.1526	0.0404	3.8000e-004	0.0407		115.8002	115.8002	1.6000e-003	2.1900e-003	116.4934
<b>Total</b>	<b>0.6236</b>	<b>32.1227</b>	<b>9.0390</b>	<b>0.1378</b>	<b>4.8485</b>	<b>0.2529</b>	<b>5.1014</b>	<b>1.3256</b>	<b>0.2420</b>	<b>1.5676</b>		<b>15,073.7961</b>	<b>15,073.7961</b>	<b>0.6156</b>	<b>2.3748</b>	<b>15,796.8765</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2035**

**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					6.9715	0.0000	6.9715	3.4321	0.0000	3.4321			0.0000			0.0000
Off-Road	2.9116	9.5942	22.5250	0.0699		0.3142	0.3142		0.3142	0.3142		7,213.1148	7,213.1148	0.2560		7,219.5135
<b>Total</b>	<b>2.9116</b>	<b>9.5942</b>	<b>22.5250</b>	<b>0.0699</b>	<b>6.9715</b>	<b>0.3142</b>	<b>7.2857</b>	<b>3.4321</b>	<b>0.3142</b>	<b>3.7464</b>		<b>7,213.1148</b>	<b>7,213.1148</b>	<b>0.2560</b>		<b>7,219.5135</b>

**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	0.5815	31.7307	8.7169	0.1351	4.6960	0.2491	4.9450	1.2851	0.2383	1.5235		14,777.5355	14,777.5355	0.6083	2.3439	15,491.2319
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0137	0.3211	1.0300e-003	0.1521	3.9000e-004	0.1525	0.0404	3.6000e-004	0.0407		114.7316	114.7316	1.5100e-003	2.1600e-003	115.4134
<b>Total</b>	<b>0.6152</b>	<b>31.7444</b>	<b>9.0380</b>	<b>0.1362</b>	<b>4.8481</b>	<b>0.2495</b>	<b>5.0976</b>	<b>1.3255</b>	<b>0.2387</b>	<b>1.5642</b>		<b>14,892.2671</b>	<b>14,892.2671</b>	<b>0.6098</b>	<b>2.3461</b>	<b>15,606.6454</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2035**

**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					3.1372	0.0000	3.1372	1.5445	0.0000	1.5445			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1148	7,213.1148	0.2560		7,219.5135
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>3.1372</b>	<b>0.1015</b>	<b>3.2387</b>	<b>1.5445</b>	<b>0.1015</b>	<b>1.6460</b>	<b>0.0000</b>	<b>7,213.1148</b>	<b>7,213.1148</b>	<b>0.2560</b>		<b>7,219.5135</b>

**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	0.5815	31.7307	8.7169	0.1351	4.6960	0.2491	4.9450	1.2851	0.2383	1.5235		14,777.5355	14,777.5355	0.6083	2.3439	15,491.2319
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0137	0.3211	1.0300e-003	0.1521	3.9000e-004	0.1525	0.0404	3.6000e-004	0.0407		114.7316	114.7316	1.5100e-003	2.1600e-003	115.4134
<b>Total</b>	<b>0.6152</b>	<b>31.7444</b>	<b>9.0380</b>	<b>0.1362</b>	<b>4.8481</b>	<b>0.2495</b>	<b>5.0976</b>	<b>1.3255</b>	<b>0.2387</b>	<b>1.5642</b>		<b>14,892.2671</b>	<b>14,892.2671</b>	<b>0.6098</b>	<b>2.3461</b>	<b>15,606.6454</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2035**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2075	8.3078	2.6632	0.0330	1.2882	0.0443	1.3325	0.3707	0.0424	0.4131		3,543.6957	3,543.6957	0.0870	0.5289	3,703.4749
Worker	1.3163	0.5352	12.5548	0.0404	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		4,486.0070	4,486.0070	0.0592	0.0845	4,512.6655
<b>Total</b>	<b>1.5238</b>	<b>8.8430</b>	<b>15.2180</b>	<b>0.0734</b>	<b>7.2368</b>	<b>0.0595</b>	<b>7.2963</b>	<b>1.9486</b>	<b>0.0564</b>	<b>2.0050</b>		<b>8,029.7026</b>	<b>8,029.7026</b>	<b>0.1463</b>	<b>0.6134</b>	<b>8,216.1404</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2075	8.3078	2.6632	0.0330	1.2882	0.0443	1.3325	0.3707	0.0424	0.4131		3,543.6957	3,543.6957	0.0870	0.5289	3,703.4749
Worker	1.3163	0.5352	12.5548	0.0404	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		4,486.0070	4,486.0070	0.0592	0.0845	4,512.6655
<b>Total</b>	<b>1.5238</b>	<b>8.8430</b>	<b>15.2180</b>	<b>0.0734</b>	<b>7.2368</b>	<b>0.0595</b>	<b>7.2963</b>	<b>1.9486</b>	<b>0.0564</b>	<b>2.0050</b>		<b>8,029.7026</b>	<b>8,029.7026</b>	<b>0.1463</b>	<b>0.6134</b>	<b>8,216.1404</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2036**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2075	8.3078	2.6632	0.0330	1.2882	0.0443	1.3325	0.3707	0.0424	0.4131		3,543.6957	3,543.6957	0.0870	0.5289	3,703.4749
Worker	1.3163	0.5352	12.5548	0.0404	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		4,486.0070	4,486.0070	0.0592	0.0845	4,512.6655
<b>Total</b>	<b>1.5238</b>	<b>8.8430</b>	<b>15.2180</b>	<b>0.0734</b>	<b>7.2368</b>	<b>0.0595</b>	<b>7.2963</b>	<b>1.9486</b>	<b>0.0564</b>	<b>2.0050</b>		<b>8,029.7026</b>	<b>8,029.7026</b>	<b>0.1463</b>	<b>0.6134</b>	<b>8,216.1404</b>



Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2075	8.3078	2.6632	0.0330	1.2882	0.0443	1.3325	0.3707	0.0424	0.4131		3,543.6957	3,543.6957	0.0870	0.5289	3,703.4749
Worker	1.3163	0.5352	12.5548	0.0404	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		4,486.0070	4,486.0070	0.0592	0.0845	4,512.6655
<b>Total</b>	<b>1.5238</b>	<b>8.8430</b>	<b>15.2180</b>	<b>0.0734</b>	<b>7.2368</b>	<b>0.0595</b>	<b>7.2963</b>	<b>1.9486</b>	<b>0.0564</b>	<b>2.0050</b>		<b>8,029.7026</b>	<b>8,029.7026</b>	<b>0.1463</b>	<b>0.6134</b>	<b>8,216.1404</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2037**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2075	8.3078	2.6632	0.0330	1.2882	0.0443	1.3325	0.3707	0.0424	0.4131		3,543.6957	3,543.6957	0.0870	0.5289	3,703.4749
Worker	1.3163	0.5352	12.5548	0.0404	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		4,486.0070	4,486.0070	0.0592	0.0845	4,512.6655
<b>Total</b>	<b>1.5238</b>	<b>8.8430</b>	<b>15.2180</b>	<b>0.0734</b>	<b>7.2368</b>	<b>0.0595</b>	<b>7.2963</b>	<b>1.9486</b>	<b>0.0564</b>	<b>2.0050</b>		<b>8,029.7026</b>	<b>8,029.7026</b>	<b>0.1463</b>	<b>0.6134</b>	<b>8,216.1404</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2075	8.3078	2.6632	0.0330	1.2882	0.0443	1.3325	0.3707	0.0424	0.4131		3,543.6957	3,543.6957	0.0870	0.5289	3,703.4749
Worker	1.3163	0.5352	12.5548	0.0404	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		4,486.0070	4,486.0070	0.0592	0.0845	4,512.6655
<b>Total</b>	<b>1.5238</b>	<b>8.8430</b>	<b>15.2180</b>	<b>0.0734</b>	<b>7.2368</b>	<b>0.0595</b>	<b>7.2963</b>	<b>1.9486</b>	<b>0.0564</b>	<b>2.0050</b>		<b>8,029.7026</b>	<b>8,029.7026</b>	<b>0.1463</b>	<b>0.6134</b>	<b>8,216.1404</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2038**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2075	8.3078	2.6632	0.0330	1.2882	0.0443	1.3325	0.3707	0.0424	0.4131		3,543.6957	3,543.6957	0.0870	0.5289	3,703.4749
Worker	1.3163	0.5352	12.5548	0.0404	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		4,486.0070	4,486.0070	0.0592	0.0845	4,512.6655
<b>Total</b>	<b>1.5238</b>	<b>8.8430</b>	<b>15.2180</b>	<b>0.0734</b>	<b>7.2368</b>	<b>0.0595</b>	<b>7.2963</b>	<b>1.9486</b>	<b>0.0564</b>	<b>2.0050</b>		<b>8,029.7026</b>	<b>8,029.7026</b>	<b>0.1463</b>	<b>0.6134</b>	<b>8,216.1404</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2038**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2075	8.3078	2.6632	0.0330	1.2882	0.0443	1.3325	0.3707	0.0424	0.4131		3,543.6957	3,543.6957	0.0870	0.5289	3,703.4749
Worker	1.3163	0.5352	12.5548	0.0404	5.9487	0.0152	5.9638	1.5779	0.0140	1.5919		4,486.0070	4,486.0070	0.0592	0.0845	4,512.6655
<b>Total</b>	<b>1.5238</b>	<b>8.8430</b>	<b>15.2180</b>	<b>0.0734</b>	<b>7.2368</b>	<b>0.0595</b>	<b>7.2963</b>	<b>1.9486</b>	<b>0.0564</b>	<b>2.0050</b>		<b>8,029.7026</b>	<b>8,029.7026</b>	<b>0.1463</b>	<b>0.6134</b>	<b>8,216.1404</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2038**

**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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.4943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6349</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0727</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0253	0.0103	0.2408	7.7000e-004	0.1141	2.9000e-004	0.1144	0.0303	2.7000e-004	0.0305		86.0487	86.0487	1.1400e-003	1.6200e-003	86.5601
<b>Total</b>	<b>0.0253</b>	<b>0.0103</b>	<b>0.2408</b>	<b>7.7000e-004</b>	<b>0.1141</b>	<b>2.9000e-004</b>	<b>0.1144</b>	<b>0.0303</b>	<b>2.7000e-004</b>	<b>0.0305</b>		<b>86.0487</b>	<b>86.0487</b>	<b>1.1400e-003</b>	<b>1.6200e-003</b>	<b>86.5601</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2038**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.4943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7748</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0726</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0253	0.0103	0.2408	7.7000e-004	0.1141	2.9000e-004	0.1144	0.0303	2.7000e-004	0.0305		86.0487	86.0487	1.1400e-003	1.6200e-003	86.5601
<b>Total</b>	<b>0.0253</b>	<b>0.0103</b>	<b>0.2408</b>	<b>7.7000e-004</b>	<b>0.1141</b>	<b>2.9000e-004</b>	<b>0.1144</b>	<b>0.0303</b>	<b>2.7000e-004</b>	<b>0.0305</b>		<b>86.0487</b>	<b>86.0487</b>	<b>1.1400e-003</b>	<b>1.6200e-003</b>	<b>86.5601</b>

Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2038**

**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	232.5436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>232.6615</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2626	0.1068	2.5045	8.0600e-003	1.1867	3.0200e-003	1.1897	0.3148	2.7800e-003	0.3176		894.9068	894.9068	0.0118	0.0169	900.2248
<b>Total</b>	<b>0.2626</b>	<b>0.1068</b>	<b>2.5045</b>	<b>8.0600e-003</b>	<b>1.1867</b>	<b>3.0200e-003</b>	<b>1.1897</b>	<b>0.3148</b>	<b>2.7800e-003</b>	<b>0.3176</b>		<b>894.9068</b>	<b>894.9068</b>	<b>0.0118</b>	<b>0.0169</b>	<b>900.2248</b>



Innovation Park PUD - Part 4 - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2038**

**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	232.5436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>232.5733</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2626	0.1068	2.5045	8.0600e-003	1.1867	3.0200e-003	1.1897	0.3148	2.7800e-003	0.3176		894.9068	894.9068	0.0118	0.0169	900.2248
<b>Total</b>	<b>0.2626</b>	<b>0.1068</b>	<b>2.5045</b>	<b>8.0600e-003</b>	<b>1.1867</b>	<b>3.0200e-003</b>	<b>1.1897</b>	<b>0.3148</b>	<b>2.7800e-003</b>	<b>0.3176</b>		<b>894.9068</b>	<b>894.9068</b>	<b>0.0118</b>	<b>0.0169</b>	<b>900.2248</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - CNU Phase 1A**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	730.00	1000sqft	16.76	730,000.00	0
General Light Industry	30.00	1000sqft	0.69	30,000.00	0
Enclosed Parking with Elevator	200.00	Space	1.80	80,000.00	0
Parking Lot	837.00	Space	7.53	334,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2026
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics - CNU Phase 1A Construction only
- Land Use - Phase 1A: M1 and M2 + Parking
- Construction Phase - Demolition part of the PUD
- Trips and VMT - Use 7 CY Truck capacity
- Grading - Material import for 20' above grade work
- Construction Off-road Equipment Mitigation - MM Scenario of T4f + Dust BMPs
- Stationary Sources - Process Boilers -

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	48.00
tblConstructionPhase	NumDays	440.00	771.00

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	45.00	107.00
tblConstructionPhase	NumDays	35.00	61.00
tblConstructionPhase	NumDays	35.00	61.00
tblGrading	MaterialImported	0.00	114,286.00
tblTripsAndVMT	HaulingTripNumber	11,300.00	16,327.00

**2.0 Emissions Summary**

**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					
2022	8.2939	119.1457	63.7910	0.3555	30.0848	3.0513	33.1361	12.9458	2.8466	15.7924	0.0000	37,619.2174	37,619.2174	2.9735	4.5000	39,034.5438
2023	3.2463	24.0015	30.4723	0.0929	4.3577	0.7661	5.1238	1.1822	0.7213	1.9035	0.0000	9,488.9605	9,488.9605	0.7874	0.6516	9,702.8308
2024	3.0406	22.8087	29.4870	0.0913	4.3576	0.6782	5.0357	1.1821	0.6384	1.8205	0.0000	9,338.9512	9,338.9512	0.7732	0.6368	9,548.0539
2025	117.8052	21.5944	28.6350	0.0896	4.3575	0.5908	4.9482	1.1821	0.5562	1.7382	0.0000	9,190.1422	9,190.1422	0.7608	0.6219	9,394.4949
<b>Maximum</b>	<b>117.8052</b>	<b>119.1457</b>	<b>63.7910</b>	<b>0.3555</b>	<b>30.0848</b>	<b>3.0513</b>	<b>33.1361</b>	<b>12.9458</b>	<b>2.8466</b>	<b>15.7924</b>	<b>0.0000</b>	<b>37,619.2174</b>	<b>37,619.2174</b>	<b>2.9735</b>	<b>4.5000</b>	<b>39,034.5438</b>



Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.3896	1.6600e-003	0.1830	1.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004		0.3933	0.3933	1.0200e-003		0.4189
Energy	1.4753	13.4121	11.2662	0.0805		1.0193	1.0193		1.0193	1.0193		16,094.5367	16,094.5367	0.3085	0.2951	16,190.1785
Mobile	23.7775	21.9089	185.7007	0.3912	41.4773	0.2838	41.7611	11.0557	0.2650	11.3208		39,906.5188	39,906.5188	2.4667	1.7931	40,502.5302
Stationary	0.0000	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>43.6424</b>	<b>35.3226</b>	<b>197.1499</b>	<b>0.4717</b>	<b>41.4773</b>	<b>1.3038</b>	<b>42.7811</b>	<b>11.0557</b>	<b>1.2850</b>	<b>12.3407</b>		<b>56,001.4488</b>	<b>56,001.4488</b>	<b>2.7762</b>	<b>2.0882</b>	<b>56,693.1275</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.3896	1.6600e-003	0.1830	1.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004		0.3933	0.3933	1.0200e-003		0.4189
Energy	1.4753	13.4121	11.2662	0.0805		1.0193	1.0193		1.0193	1.0193		16,094.5367	16,094.5367	0.3085	0.2951	16,190.1785
Mobile	23.7775	21.9089	185.7007	0.3912	41.4773	0.2838	41.7611	11.0557	0.2650	11.3208		39,906.5188	39,906.5188	2.4667	1.7931	40,502.5302
Stationary	0.0000	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>43.6424</b>	<b>35.3226</b>	<b>197.1499</b>	<b>0.4717</b>	<b>41.4773</b>	<b>1.3038</b>	<b>42.7811</b>	<b>11.0557</b>	<b>1.2850</b>	<b>12.3407</b>		<b>56,001.4488</b>	<b>56,001.4488</b>	<b>2.7762</b>	<b>2.0882</b>	<b>56,693.1275</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2022	4/7/2022	5	48	
2	Building Construction	Building Construction	4/1/2022	3/14/2025	5	771	
3	Grading	Grading	4/8/2022	9/5/2022	5	107	
4	Paving	Paving	3/17/2025	6/9/2025	5	61	

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

5	Architectural Coating	Architectural Coating	6/10/2025	9/2/2025	5	61
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**Acres of Grading (Site Preparation Phase): 72**

**Acres of Grading (Grading Phase): 321**

**Acres of Paving: 9.33**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,140,000; Non-Residential Outdoor: 380,000; Striped Parking Area: 24,888 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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**



Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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
Site Preparation	7	18.00	0.00	16,327.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	420.00	193.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	84.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	1.4130	59.1323	11.6104	0.2210	5.9330	0.5096	6.4426	1.6248	0.4875	2.1123		24,093.8802	24,093.8802	0.9676	3.8191	25,256.1750
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0652	0.0329	0.5324	1.2900e-003	0.1369	7.4000e-004	0.1377	0.0363	6.8000e-004	0.0370		131.5353	131.5353	3.9000e-003	3.4000e-003	132.6458
<b>Total</b>	<b>1.4782</b>	<b>59.1652</b>	<b>12.1428</b>	<b>0.2223</b>	<b>6.0699</b>	<b>0.5103</b>	<b>6.5802</b>	<b>1.6611</b>	<b>0.4882</b>	<b>2.1493</b>		<b>24,225.4155</b>	<b>24,225.4155</b>	<b>0.9715</b>	<b>3.8225</b>	<b>25,388.8209</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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0380</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	1.4130	59.1323	11.6104	0.2210	5.9330	0.5096	6.4426	1.6248	0.4875	2.1123		24,093.8802	24,093.8802	0.9676	3.8191	25,256.1750
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0652	0.0329	0.5324	1.2900e-003	0.1369	7.4000e-004	0.1377	0.0363	6.8000e-004	0.0370		131.5353	131.5353	3.9000e-003	3.4000e-003	132.6458
<b>Total</b>	<b>1.4782</b>	<b>59.1652</b>	<b>12.1428</b>	<b>0.2223</b>	<b>6.0699</b>	<b>0.5103</b>	<b>6.5802</b>	<b>1.6611</b>	<b>0.4882</b>	<b>2.1493</b>		<b>24,225.4155</b>	<b>24,225.4155</b>	<b>0.9715</b>	<b>3.8225</b>	<b>25,388.8209</b>

**3.3 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	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4176	10.5129	3.1652	0.0381	1.1629	0.1021	1.2650	0.3347	0.0977	0.4324		4,084.249 4	4,084.249 4	0.1068	0.5981	4,265.155 5
Worker	1.5218	0.7685	12.4219	0.0302	3.1949	0.0173	3.2123	0.8475	0.0160	0.8635		3,069.157 0	3,069.157 0	0.0911	0.0793	3,095.069 7
<b>Total</b>	<b>1.9394</b>	<b>11.2814</b>	<b>15.5871</b>	<b>0.0683</b>	<b>4.3579</b>	<b>0.1195</b>	<b>4.4773</b>	<b>1.1822</b>	<b>0.1137</b>	<b>1.2959</b>		<b>7,153.406 5</b>	<b>7,153.406 5</b>	<b>0.1979</b>	<b>0.6774</b>	<b>7,360.225 2</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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0269</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,554.333 6</b>	<b>2,554.333 6</b>	<b>0.6120</b>		<b>2,569.632 2</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4176	10.5129	3.1652	0.0381	1.1629	0.1021	1.2650	0.3347	0.0977	0.4324		4,084.249 4	4,084.249 4	0.1068	0.5981	4,265.155 5
Worker	1.5218	0.7685	12.4219	0.0302	3.1949	0.0173	3.2123	0.8475	0.0160	0.8635		3,069.157 0	3,069.157 0	0.0911	0.0793	3,095.069 7
<b>Total</b>	<b>1.9394</b>	<b>11.2814</b>	<b>15.5871</b>	<b>0.0683</b>	<b>4.3579</b>	<b>0.1195</b>	<b>4.4773</b>	<b>1.1822</b>	<b>0.1137</b>	<b>1.2959</b>		<b>7,153.406 5</b>	<b>7,153.406 5</b>	<b>0.1979</b>	<b>0.6774</b>	<b>7,360.225 2</b>

**3.3 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2582	8.9367	2.7821	0.0368	1.1628	0.0499	1.2127	0.3347	0.0477	0.3824		3,944.615 3	3,944.615 3	0.0975	0.5782	4,119.363 4
Worker	1.4153	0.6800	11.4462	0.0292	3.1949	0.0165	3.2114	0.8475	0.0152	0.8627		2,989.135 3	2,989.135 3	0.0820	0.0734	3,013.061 3
<b>Total</b>	<b>1.6735</b>	<b>9.6166</b>	<b>14.2283</b>	<b>0.0660</b>	<b>4.3577</b>	<b>0.0664</b>	<b>4.4241</b>	<b>1.1822</b>	<b>0.0629</b>	<b>1.2451</b>		<b>6,933.750 6</b>	<b>6,933.750 6</b>	<b>0.1795</b>	<b>0.6516</b>	<b>7,132.424 7</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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0269</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2582	8.9367	2.7821	0.0368	1.1628	0.0499	1.2127	0.3347	0.0477	0.3824		3,944.615 3	3,944.615 3	0.0975	0.5782	4,119.363 4
Worker	1.4153	0.6800	11.4462	0.0292	3.1949	0.0165	3.2114	0.8475	0.0152	0.8627		2,989.135 3	2,989.135 3	0.0820	0.0734	3,013.061 3
<b>Total</b>	<b>1.6735</b>	<b>9.6166</b>	<b>14.2283</b>	<b>0.0660</b>	<b>4.3577</b>	<b>0.0664</b>	<b>4.4241</b>	<b>1.1822</b>	<b>0.0629</b>	<b>1.2451</b>		<b>6,933.750 6</b>	<b>6,933.750 6</b>	<b>0.1795</b>	<b>0.6516</b>	<b>7,132.424 7</b>

**3.3 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2470	8.7592	2.6948	0.0361	1.1626	0.0492	1.2118	0.3346	0.0470	0.3817		3,869.4906	3,869.4906	0.0948	0.5685	4,041.2823
Worker	1.3219	0.6058	10.6254	0.0283	3.1949	0.0157	3.2106	0.8475	0.0144	0.8619		2,913.7617	2,913.7617	0.0741	0.0683	2,935.9639
<b>Total</b>	<b>1.5690</b>	<b>9.3650</b>	<b>13.3202</b>	<b>0.0643</b>	<b>4.3576</b>	<b>0.0649</b>	<b>4.4224</b>	<b>1.1821</b>	<b>0.0615</b>	<b>1.2436</b>		<b>6,783.2523</b>	<b>6,783.2523</b>	<b>0.1688</b>	<b>0.6368</b>	<b>6,977.2462</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	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>



Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2470	8.7592	2.6948	0.0361	1.1626	0.0492	1.2118	0.3346	0.0470	0.3817		3,869.4906	3,869.4906	0.0948	0.5685	4,041.2823
Worker	1.3219	0.6058	10.6254	0.0283	3.1949	0.0157	3.2106	0.8475	0.0144	0.8619		2,913.7617	2,913.7617	0.0741	0.0683	2,935.9639
<b>Total</b>	<b>1.5690</b>	<b>9.3650</b>	<b>13.3202</b>	<b>0.0643</b>	<b>4.3576</b>	<b>0.0649</b>	<b>4.4224</b>	<b>1.1821</b>	<b>0.0615</b>	<b>1.2436</b>		<b>6,783.2523</b>	<b>6,783.2523</b>	<b>0.1688</b>	<b>0.6368</b>	<b>6,977.2462</b>

**3.3 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2382	8.5809	2.6316	0.0353	1.1625	0.0482	1.2107	0.3346	0.0461	0.3807		3,791.027 0	3,791.027 0	0.0928	0.5581	3,959.648 6
Worker	1.2410	0.5438	9.9188	0.0273	3.1949	0.0150	3.2099	0.8475	0.0138	0.8613		2,842.640 8	2,842.640 8	0.0671	0.0639	2,863.348 2
<b>Total</b>	<b>1.4792</b>	<b>9.1247</b>	<b>12.5503</b>	<b>0.0626</b>	<b>4.3575</b>	<b>0.0632</b>	<b>4.4206</b>	<b>1.1821</b>	<b>0.0599</b>	<b>1.2420</b>		<b>6,633.667 8</b>	<b>6,633.667 8</b>	<b>0.1599</b>	<b>0.6219</b>	<b>6,822.996 9</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	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2382	8.5809	2.6316	0.0353	1.1625	0.0482	1.2107	0.3346	0.0461	0.3807		3,791.027 0	3,791.027 0	0.0928	0.5581	3,959.648 6
Worker	1.2410	0.5438	9.9188	0.0273	3.1949	0.0150	3.2099	0.8475	0.0138	0.8613		2,842.640 8	2,842.640 8	0.0671	0.0639	2,863.348 2
<b>Total</b>	<b>1.4792</b>	<b>9.1247</b>	<b>12.5503</b>	<b>0.0626</b>	<b>4.3575</b>	<b>0.0632</b>	<b>4.4206</b>	<b>1.1821</b>	<b>0.0599</b>	<b>1.2420</b>		<b>6,633.667 8</b>	<b>6,633.667 8</b>	<b>0.1599</b>	<b>0.6219</b>	<b>6,822.996 9</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.410 5	6,011.410 5	1.9442		6,060.015 8
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>		<b>6,011.410 5</b>	<b>6,011.410 5</b>	<b>1.9442</b>		<b>6,060.015 8</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0725	0.0366	0.5915	1.4400e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		146.1503	146.1503	4.3400e-003	3.7800e-003	147.3843
<b>Total</b>	<b>0.0725</b>	<b>0.0366</b>	<b>0.5915</b>	<b>1.4400e-003</b>	<b>0.1521</b>	<b>8.3000e-004</b>	<b>0.1530</b>	<b>0.0404</b>	<b>7.6000e-004</b>	<b>0.0411</b>		<b>146.1503</b>	<b>146.1503</b>	<b>4.3400e-003</b>	<b>3.7800e-003</b>	<b>147.3843</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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>4.1416</b>	<b>0.1015</b>	<b>4.2432</b>	<b>1.6442</b>	<b>0.1015</b>	<b>1.7457</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0725	0.0366	0.5915	1.4400e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		146.1503	146.1503	4.3400e-003	3.7800e-003	147.3843
<b>Total</b>	<b>0.0725</b>	<b>0.0366</b>	<b>0.5915</b>	<b>1.4400e-003</b>	<b>0.1521</b>	<b>8.3000e-004</b>	<b>0.1530</b>	<b>0.0404</b>	<b>7.6000e-004</b>	<b>0.0411</b>		<b>146.1503</b>	<b>146.1503</b>	<b>4.3400e-003</b>	<b>3.7800e-003</b>	<b>147.3843</b>

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.3234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2386</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624
<b>Total</b>	<b>0.0443</b>	<b>0.0194</b>	<b>0.3542</b>	<b>9.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>101.5229</b>	<b>101.5229</b>	<b>2.4000e-003</b>	<b>2.2800e-003</b>	<b>102.2624</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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.3234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6039</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624
<b>Total</b>	<b>0.0443</b>	<b>0.0194</b>	<b>0.3542</b>	<b>9.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>101.5229</b>	<b>101.5229</b>	<b>2.4000e-003</b>	<b>2.2800e-003</b>	<b>102.2624</b>

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	117.3862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>117.5570</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2482	0.1088	1.9838	5.4600e-003	0.6390	3.0000e-003	0.6420	0.1695	2.7600e-003	0.1723		568.5282	568.5282	0.0134	0.0128	572.6697
<b>Total</b>	<b>0.2482</b>	<b>0.1088</b>	<b>1.9838</b>	<b>5.4600e-003</b>	<b>0.6390</b>	<b>3.0000e-003</b>	<b>0.6420</b>	<b>0.1695</b>	<b>2.7600e-003</b>	<b>0.1723</b>		<b>568.5282</b>	<b>568.5282</b>	<b>0.0134</b>	<b>0.0128</b>	<b>572.6697</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	117.3862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>117.4159</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>



Innovation Park - CNU Phase 1A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2482	0.1088	1.9838	5.4600e-003	0.6390	3.0000e-003	0.6420	0.1695	2.7600e-003	0.1723		568.5282	568.5282	0.0134	0.0128	572.6697
<b>Total</b>	<b>0.2482</b>	<b>0.1088</b>	<b>1.9838</b>	<b>5.4600e-003</b>	<b>0.6390</b>	<b>3.0000e-003</b>	<b>0.6420</b>	<b>0.1695</b>	<b>2.7600e-003</b>	<b>0.1723</b>		<b>568.5282</b>	<b>568.5282</b>	<b>0.0134</b>	<b>0.0128</b>	<b>572.6697</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - CNU Phase 1B**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	200.00	1000sqft	4.59	200,000.00	0
University/College (4yr)	2,000.00	Student	8.44	216,000.00	0
General Light Industry	40.00	1000sqft	0.92	40,000.00	0
Enclosed Parking with Elevator	233.00	Space	2.10	93,200.00	0
Parking Lot	661.00	Space	5.95	264,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2026
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - CNU Phasw 1B Construction ONLY

Land Use - U1, C2, C4 + parking

Construction Phase - Demolition part of PUD

Trips and VMT - Truck capacity = 7 CY

Grading - material import for 20' above grade work

Construction Off-road Equipment Mitigation - MM Tier 4f Scenario + Fugitive dust BMPs

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	35.00	52.00

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	370.00	450.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblLandUse	LandUseSquareFeet	367,594.94	216,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	5,102.00

**2.0 Emissions Summary**

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Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.6430	78.6788	29.5262	0.2527	25.7252	1.6610	27.3862	11.7629	1.5426	13.3055	0.0000	27,104.6066	27,104.6066	2.1248	3.6957	28,259.0448
2024	2.6553	19.9443	26.1700	0.0735	3.2507	0.6592	3.9099	0.8803	0.6204	1.5007	0.0000	7,456.1230	7,456.1230	0.7264	0.4441	7,606.6384
2025	173.4227	18.7999	25.5025	0.0722	3.2506	0.5723	3.8228	0.8803	0.5386	1.4189	0.0000	7,348.3017	7,348.3017	0.7163	0.4335	7,495.4015
<b>Maximum</b>	<b>173.4227</b>	<b>78.6788</b>	<b>29.5262</b>	<b>0.2527</b>	<b>25.7252</b>	<b>1.6610</b>	<b>27.3862</b>	<b>11.7629</b>	<b>1.5426</b>	<b>13.3055</b>	<b>0.0000</b>	<b>27,104.6066</b>	<b>27,104.6066</b>	<b>2.1248</b>	<b>3.6957</b>	<b>28,259.0448</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					
2023	1.5908	53.1722	33.5442	0.2527	14.9138	0.4570	15.3709	6.2066	0.4399	6.6465	0.0000	27,104.6066	27,104.6066	2.1248	3.6957	28,259.0448
2024	1.5116	8.7353	27.4634	0.0735	3.2507	0.0867	3.3374	0.8803	0.0843	0.9646	0.0000	7,456.1230	7,456.1230	0.7264	0.4441	7,606.6384
2025	173.2816	8.5649	26.8781	0.0722	3.2506	0.0855	3.3361	0.8803	0.0831	0.9635	0.0000	7,348.3017	7,348.3017	0.7163	0.4335	7,495.4015
<b>Maximum</b>	<b>173.2816</b>	<b>53.1722</b>	<b>33.5442</b>	<b>0.2527</b>	<b>14.9138</b>	<b>0.4570</b>	<b>15.3709</b>	<b>6.2066</b>	<b>0.4399</b>	<b>6.6465</b>	<b>0.0000</b>	<b>27,104.6066</b>	<b>27,104.6066</b>	<b>2.1248</b>	<b>3.6957</b>	<b>28,259.0448</b>

## Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.86	39.98	-8.24	0.00	33.55	78.25	37.23	41.09	77.52	47.15	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	11.0998	2.8900e-003	0.3192	2.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003		0.6859	0.6859	1.7800e-003		0.7305
Energy	0.6034	5.4855	4.6078	0.0329		0.4169	0.4169		0.4169	0.4169		6,582.5882	6,582.5882	0.1262	0.1207	6,621.7053
Mobile	15.4781	13.3837	112.4085	0.2306	24.3337	0.1695	24.5032	6.4861	0.1582	6.6443		23,524.8538	23,524.8538	1.5224	1.0946	23,889.0912
<b>Total</b>	<b>27.1813</b>	<b>18.8720</b>	<b>117.3355</b>	<b>0.2636</b>	<b>24.3337</b>	<b>0.5875</b>	<b>24.9212</b>	<b>6.4861</b>	<b>0.5763</b>	<b>7.0624</b>		<b>30,108.1280</b>	<b>30,108.1280</b>	<b>1.6503</b>	<b>1.2152</b>	<b>30,511.5269</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	11.0998	2.8900e-003	0.3192	2.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003		0.6859	0.6859	1.7800e-003		0.7305
Energy	0.6034	5.4855	4.6078	0.0329		0.4169	0.4169		0.4169	0.4169		6,582.5882	6,582.5882	0.1262	0.1207	6,621.7053
Mobile	15.4781	13.3837	112.4085	0.2306	24.3337	0.1695	24.5032	6.4861	0.1582	6.6443		23,524.8538	23,524.8538	1.5224	1.0946	23,889.0912
<b>Total</b>	<b>27.1813</b>	<b>18.8720</b>	<b>117.3355</b>	<b>0.2636</b>	<b>24.3337</b>	<b>0.5875</b>	<b>24.9212</b>	<b>6.4861</b>	<b>0.5763</b>	<b>7.0624</b>		<b>30,108.1280</b>	<b>30,108.1280</b>	<b>1.6503</b>	<b>1.2152</b>	<b>30,511.5269</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/21/2023	5	15	
2	Grading	Grading	6/22/2023	9/1/2023	5	52	
3	Building Construction	Building Construction	9/4/2023	5/23/2025	5	450	
4	Paving	Paving	5/26/2025	6/27/2025	5	25	
5	Architectural Coating	Architectural Coating	6/30/2025	8/1/2025	5	25	

**Acres of Grading (Site Preparation Phase): 22.5**

**Acres of Grading (Grading Phase): 156**

**Acres of Paving: 8.05**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 684,000; Non-Residential Outdoor: 228,000; Striped Parking Area: 21,456 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48



Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	5,102.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	322.00	133.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	64.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

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

**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	0.9229	51.1255	10.7913	0.2134	5.9312	0.3942	6.3255	1.6242	0.3772	2.0014		23,289.19 27	23,289.19 27	0.9287	3.6926	24,412.79 17
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
<b>Total</b>	<b>0.9836</b>	<b>51.1547</b>	<b>11.2819</b>	<b>0.2146</b>	<b>6.0682</b>	<b>0.3950</b>	<b>6.4631</b>	<b>1.6605</b>	<b>0.3778</b>	<b>2.0383</b>		<b>23,417.29 85</b>	<b>23,417.29 85</b>	<b>0.9322</b>	<b>3.6957</b>	<b>24,541.92 29</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**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	0.9229	51.1255	10.7913	0.2134	5.9312	0.3942	6.3255	1.6242	0.3772	2.0014			23,289.19 27	23,289.19 27	0.9287	3.6926	24,412.79 17
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370			128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
<b>Total</b>	<b>0.9836</b>	<b>51.1547</b>	<b>11.2819</b>	<b>0.2146</b>	<b>6.0682</b>	<b>0.3950</b>	<b>6.4631</b>	<b>1.6605</b>	<b>0.3778</b>	<b>2.0383</b>			<b>23,417.29 85</b>	<b>23,417.29 85</b>	<b>0.9322</b>	<b>3.6957</b>	<b>24,541.92 29</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
<b>Total</b>	<b>0.0674</b>	<b>0.0324</b>	<b>0.5451</b>	<b>1.3900e-003</b>	<b>0.1521</b>	<b>7.8000e-004</b>	<b>0.1529</b>	<b>0.0404</b>	<b>7.2000e-004</b>	<b>0.0411</b>		<b>142.3398</b>	<b>142.3398</b>	<b>3.9100e-003</b>	<b>3.5000e-003</b>	<b>143.4791</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>4.1416</b>	<b>0.1015</b>	<b>4.2432</b>	<b>1.6442</b>	<b>0.1015</b>	<b>1.7457</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
<b>Total</b>	<b>0.0674</b>	<b>0.0324</b>	<b>0.5451</b>	<b>1.3900e-003</b>	<b>0.1521</b>	<b>7.8000e-004</b>	<b>0.1529</b>	<b>0.0404</b>	<b>7.2000e-004</b>	<b>0.0411</b>		<b>142.3398</b>	<b>142.3398</b>	<b>3.9100e-003</b>	<b>3.5000e-003</b>	<b>143.4791</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1780	6.1584	1.9172	0.0253	0.8013	0.0344	0.8357	0.2306	0.0329	0.2635		2,718.3100	2,718.3100	0.0672	0.3985	2,838.7323
Worker	1.0850	0.5213	8.7754	0.0224	2.4495	0.0126	2.4621	0.6497	0.0116	0.6614		2,291.6704	2,291.6704	0.0629	0.0563	2,310.0136
<b>Total</b>	<b>1.2630</b>	<b>6.6798</b>	<b>10.6926</b>	<b>0.0477</b>	<b>3.2507</b>	<b>0.0470</b>	<b>3.2978</b>	<b>0.8804</b>	<b>0.0445</b>	<b>0.9249</b>		<b>5,009.9804</b>	<b>5,009.9804</b>	<b>0.1301</b>	<b>0.4548</b>	<b>5,148.7460</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0269</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1780	6.1584	1.9172	0.0253	0.8013	0.0344	0.8357	0.2306	0.0329	0.2635		2,718.3100	2,718.3100	0.0672	0.3985	2,838.7323
Worker	1.0850	0.5213	8.7754	0.0224	2.4495	0.0126	2.4621	0.6497	0.0116	0.6614		2,291.6704	2,291.6704	0.0629	0.0563	2,310.0136
<b>Total</b>	<b>1.2630</b>	<b>6.6798</b>	<b>10.6926</b>	<b>0.0477</b>	<b>3.2507</b>	<b>0.0470</b>	<b>3.2978</b>	<b>0.8804</b>	<b>0.0445</b>	<b>0.9249</b>		<b>5,009.9804</b>	<b>5,009.9804</b>	<b>0.1301</b>	<b>0.4548</b>	<b>5,148.7460</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1702	6.0361	1.8570	0.0249	0.8012	0.0339	0.8351	0.2306	0.0324	0.2630		2,666.5401	2,666.5401	0.0653	0.3918	2,784.9251
Worker	1.0135	0.4644	8.1461	0.0217	2.4495	0.0120	2.4615	0.6497	0.0111	0.6608		2,233.8840	2,233.8840	0.0568	0.0524	2,250.9057
<b>Total</b>	<b>1.1837</b>	<b>6.5006</b>	<b>10.0032</b>	<b>0.0465</b>	<b>3.2507</b>	<b>0.0459</b>	<b>3.2966</b>	<b>0.8803</b>	<b>0.0435</b>	<b>0.9238</b>		<b>4,900.4241</b>	<b>4,900.4241</b>	<b>0.1221</b>	<b>0.4441</b>	<b>5,035.8308</b>



Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1702	6.0361	1.8570	0.0249	0.8012	0.0339	0.8351	0.2306	0.0324	0.2630		2,666.5401	2,666.5401	0.0653	0.3918	2,784.9251
Worker	1.0135	0.4644	8.1461	0.0217	2.4495	0.0120	2.4615	0.6497	0.0111	0.6608		2,233.8840	2,233.8840	0.0568	0.0524	2,250.9057
<b>Total</b>	<b>1.1837</b>	<b>6.5006</b>	<b>10.0032</b>	<b>0.0465</b>	<b>3.2507</b>	<b>0.0459</b>	<b>3.2966</b>	<b>0.8803</b>	<b>0.0435</b>	<b>0.9238</b>		<b>4,900.4241</b>	<b>4,900.4241</b>	<b>0.1221</b>	<b>0.4441</b>	<b>5,035.8308</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1641	5.9133	1.8135	0.0243	0.8011	0.0332	0.8343	0.2306	0.0318	0.2623		2,612.469 4	2,612.469 4	0.0639	0.3846	2,728.669 8
Worker	0.9515	0.4169	7.6044	0.0209	2.4495	0.0115	2.4610	0.6497	0.0106	0.6603		2,179.358 0	2,179.358 0	0.0514	0.0490	2,195.233 6
<b>Total</b>	<b>1.1156</b>	<b>6.3302</b>	<b>9.4179</b>	<b>0.0453</b>	<b>3.2506</b>	<b>0.0447</b>	<b>3.2953</b>	<b>0.8803</b>	<b>0.0424</b>	<b>0.9227</b>		<b>4,791.827 4</b>	<b>4,791.827 4</b>	<b>0.1154</b>	<b>0.4335</b>	<b>4,923.903 4</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1641	5.9133	1.8135	0.0243	0.8011	0.0332	0.8343	0.2306	0.0318	0.2623		2,612.469 4	2,612.469 4	0.0639	0.3846	2,728.669 8
Worker	0.9515	0.4169	7.6044	0.0209	2.4495	0.0115	2.4610	0.6497	0.0106	0.6603		2,179.358 0	2,179.358 0	0.0514	0.0490	2,195.233 6
<b>Total</b>	<b>1.1156</b>	<b>6.3302</b>	<b>9.4179</b>	<b>0.0453</b>	<b>3.2506</b>	<b>0.0447</b>	<b>3.2953</b>	<b>0.8803</b>	<b>0.0424</b>	<b>0.9227</b>		<b>4,791.827 4</b>	<b>4,791.827 4</b>	<b>0.1154</b>	<b>0.4335</b>	<b>4,923.903 4</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.6236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5387</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624
<b>Total</b>	<b>0.0443</b>	<b>0.0194</b>	<b>0.3542</b>	<b>9.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>101.5229</b>	<b>101.5229</b>	<b>2.4000e-003</b>	<b>2.2800e-003</b>	<b>102.2624</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.6236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9040</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624
<b>Total</b>	<b>0.0443</b>	<b>0.0194</b>	<b>0.3542</b>	<b>9.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>101.5229</b>	<b>101.5229</b>	<b>2.4000e-003</b>	<b>2.2800e-003</b>	<b>102.2624</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	173.0627					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>173.2336</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1891	0.0829	1.5114	4.1600e-003	0.4869	2.2800e-003	0.4891	0.1291	2.1000e-003	0.1312		433.1643	433.1643	0.0102	9.7300e-003	436.3197
<b>Total</b>	<b>0.1891</b>	<b>0.0829</b>	<b>1.5114</b>	<b>4.1600e-003</b>	<b>0.4869</b>	<b>2.2800e-003</b>	<b>0.4891</b>	<b>0.1291</b>	<b>2.1000e-003</b>	<b>0.1312</b>		<b>433.1643</b>	<b>433.1643</b>	<b>0.0102</b>	<b>9.7300e-003</b>	<b>436.3197</b>

Innovation Park - CNU Phase 1B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 2025**

**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	173.0627					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>173.0925</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1891	0.0829	1.5114	4.1600e-003	0.4869	2.2800e-003	0.4891	0.1291	2.1000e-003	0.1312		433.1643	433.1643	0.0102	9.7300e-003	436.3197
<b>Total</b>	<b>0.1891</b>	<b>0.0829</b>	<b>1.5114</b>	<b>4.1600e-003</b>	<b>0.4869</b>	<b>2.2800e-003</b>	<b>0.4891</b>	<b>0.1291</b>	<b>2.1000e-003</b>	<b>0.1312</b>		<b>433.1643</b>	<b>433.1643</b>	<b>0.0102</b>	<b>9.7300e-003</b>	<b>436.3197</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park - CNU - Phase 2A**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	325.00	1000sqft	7.46	325,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2029
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Ambulatory Care Building and Medical Building Construction ONLY

Land Use - Med bldg + care bldg

Construction Phase - schedule

Trips and VMT - 15 truck per day for site prep, demo, grade

Grading -

Area Coating -

Construction Off-road Equipment Mitigation - Tier 4 MM scenario + dust BMPs

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingValue	100	0



Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	NumDays	20.00	16.00

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	230.00	383.00
tblConstructionPhase	NumDays	20.00	34.00
tblConstructionPhase	NumDays	20.00	34.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	HaulingTripNumber	0.00	135.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00

**2.0 Emissions Summary**

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Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	3.3012	32.2031	34.3016	0.0818	20.0553	1.1836	21.1587	10.2103	1.1009	11.2260	0.0000	8,140.276 3	8,140.276 3	1.6083	0.3134	8,273.858 5
2028	1.6855	14.8005	18.8527	0.0422	1.1103	0.5431	1.6533	0.3017	0.5110	0.8127	0.0000	4,191.777 0	4,191.777 0	0.6375	0.1582	4,254.863 8
2029	88.8305	14.7591	18.7551	0.0419	1.1103	0.5426	1.6529	0.3017	0.5105	0.8122	0.0000	4,160.117 2	4,160.117 2	0.7154	0.1551	4,222.223 5
<b>Maximum</b>	<b>88.8305</b>	<b>32.2031</b>	<b>34.3016</b>	<b>0.0818</b>	<b>20.0553</b>	<b>1.1836</b>	<b>21.1587</b>	<b>10.2103</b>	<b>1.1009</b>	<b>11.2260</b>	<b>0.0000</b>	<b>8,140.276 3</b>	<b>8,140.276 3</b>	<b>1.6083</b>	<b>0.3134</b>	<b>8,273.858 5</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					
2027	1.1021	8.2271	38.8897	0.0818	9.2439	0.1217	9.3226	4.6540	0.1202	4.7319	0.0000	8,140.276 3	8,140.276 3	1.6083	0.3134	8,273.858 5
2028	0.6459	4.5656	20.2283	0.0422	1.1103	0.0563	1.1666	0.3017	0.0555	0.3572	0.0000	4,191.777 0	4,191.777 0	0.6375	0.1582	4,254.863 8
2029	88.6893	4.5242	20.1307	0.0419	1.1103	0.0558	1.1661	0.3017	0.0551	0.3568	0.0000	4,160.117 2	4,160.117 2	0.7154	0.1551	4,222.223 5
<b>Maximum</b>	<b>88.6893</b>	<b>8.2271</b>	<b>38.8897</b>	<b>0.0818</b>	<b>9.2439</b>	<b>0.1217</b>	<b>9.3226</b>	<b>4.6540</b>	<b>0.1202</b>	<b>4.7319</b>	<b>0.0000</b>	<b>8,140.276 3</b>	<b>8,140.276 3</b>	<b>1.6083</b>	<b>0.3134</b>	<b>8,273.858 5</b>

## Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.60	71.96	-10.21	0.00	48.53	89.70	52.36	51.38	89.13	57.62	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.7835	3.0000e-004	0.0331	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0711	0.0711	1.9000e-004		0.0758
Energy	0.6428	5.8435	4.9086	0.0351		0.4441	0.4441		0.4441	0.4441		7,012.2482	7,012.2482	0.1344	0.1286	7,053.9185
Mobile	9.3125	8.2079	73.2716	0.1561	18.0683	0.1057	18.1740	4.8148	0.0988	4.9135		16,730.5813	16,730.5813	0.9800	0.7120	16,967.2415
<b>Total</b>	<b>17.7388</b>	<b>14.0517</b>	<b>78.2132</b>	<b>0.1911</b>	<b>18.0683</b>	<b>0.5500</b>	<b>18.6183</b>	<b>4.8148</b>	<b>0.5430</b>	<b>5.3577</b>		<b>23,742.9006</b>	<b>23,742.9006</b>	<b>1.1146</b>	<b>0.8405</b>	<b>24,021.2357</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	7.7835	3.0000e-004	0.0331	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0711	0.0711	1.9000e-004		0.0758
Energy	0.6428	5.8435	4.9086	0.0351		0.4441	0.4441		0.4441	0.4441		7,012.2482	7,012.2482	0.1344	0.1286	7,053.9185
Mobile	9.3125	8.2079	73.2716	0.1561	18.0683	0.1057	18.1740	4.8148	0.0988	4.9135		16,730.5813	16,730.5813	0.9800	0.7120	16,967.2415
<b>Total</b>	<b>17.7388</b>	<b>14.0517</b>	<b>78.2132</b>	<b>0.1911</b>	<b>18.0683</b>	<b>0.5500</b>	<b>18.6183</b>	<b>4.8148</b>	<b>0.5430</b>	<b>5.3577</b>		<b>23,742.9006</b>	<b>23,742.9006</b>	<b>1.1146</b>	<b>0.8405</b>	<b>24,021.2357</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/15/2027	11/5/2027	5	16	
2	Site Preparation	Site Preparation	11/8/2027	11/18/2027	5	9	
3	Grading	Grading	11/19/2027	12/10/2027	5	16	
4	Building Construction	Building Construction	12/10/2027	5/29/2029	5	383	
5	Paving	Paving	5/30/2029	7/16/2029	5	34	
6	Architectural Coating	Architectural Coating	7/17/2029	8/31/2029	5	34	

**Acres of Grading (Site Preparation Phase): 13.5**

**Acres of Grading (Grading Phase): 16**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 487,500; Non-Residential Outdoor: 162,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	135.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	104.00	53.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0395	0.0161	0.3151	9.2000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		96.8581	96.8581	1.9900e-003	2.0400e-003	97.5157
<b>Total</b>	<b>0.0765</b>	<b>2.0425</b>	<b>0.7955</b>	<b>9.5500e-003</b>	<b>0.3754</b>	<b>0.0165</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1176</b>		<b>1,040.3921</b>	<b>1,040.3921</b>	<b>0.0398</b>	<b>0.1517</b>	<b>1,086.5894</b>



Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0395	0.0161	0.3151	9.2000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		96.8581	96.8581	1.9900e-003	2.0400e-003	97.5157
<b>Total</b>	<b>0.0765</b>	<b>2.0425</b>	<b>0.7955</b>	<b>9.5500e-003</b>	<b>0.3754</b>	<b>0.0165</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1176</b>		<b>1,040.3921</b>	<b>1,040.3921</b>	<b>0.0398</b>	<b>0.1517</b>	<b>1,086.5894</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0473	0.0193	0.3782	1.1000e-003	0.1369	5.8000e-004	0.1375	0.0363	5.3000e-004	0.0369		116.2297	116.2297	2.3900e-003	2.4500e-003	117.0188
<b>Total</b>	<b>0.0844</b>	<b>2.0458</b>	<b>0.8586</b>	<b>9.7300e-003</b>	<b>0.3983</b>	<b>0.0166</b>	<b>0.4149</b>	<b>0.1079</b>	<b>0.0159</b>	<b>0.1237</b>		<b>1,059.7638</b>	<b>1,059.7638</b>	<b>0.0402</b>	<b>0.1521</b>	<b>1,106.0925</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2027**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0473	0.0193	0.3782	1.1000e-003	0.1369	5.8000e-004	0.1375	0.0363	5.3000e-004	0.0369		116.2297	116.2297	2.3900e-003	2.4500e-003	117.0188
<b>Total</b>	<b>0.0844</b>	<b>2.0458</b>	<b>0.8586</b>	<b>9.7300e-003</b>	<b>0.3983</b>	<b>0.0166</b>	<b>0.4149</b>	<b>0.1079</b>	<b>0.0159</b>	<b>0.1237</b>		<b>1,059.7638</b>	<b>1,059.7638</b>	<b>0.0402</b>	<b>0.1521</b>	<b>1,106.0925</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>1.5227</b>	<b>15.3148</b>	<b>14.5402</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.6236</b>	<b>7.7062</b>	<b>3.4247</b>	<b>0.5737</b>	<b>3.9984</b>		<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0395	0.0161	0.3151	9.2000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		96.8581	96.8581	1.9900e-003	2.0400e-003	97.5157
<b>Total</b>	<b>0.0765</b>	<b>2.0425</b>	<b>0.7955</b>	<b>9.5500e-003</b>	<b>0.3754</b>	<b>0.0165</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1176</b>		<b>1,040.392 1</b>	<b>1,040.392 1</b>	<b>0.0398</b>	<b>0.1517</b>	<b>1,086.589 4</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2027**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0395	0.0161	0.3151	9.2000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		96.8581	96.8581	1.9900e-003	2.0400e-003	97.5157
<b>Total</b>	<b>0.0765</b>	<b>2.0425</b>	<b>0.7955</b>	<b>9.5500e-003</b>	<b>0.3754</b>	<b>0.0165</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1176</b>		<b>1,040.392 1</b>	<b>1,040.392 1</b>	<b>0.0398</b>	<b>0.1517</b>	<b>1,086.589 4</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0611	2.2645	0.6963	9.2900e-003	0.3192	0.0126	0.3318	0.0919	0.0121	0.1039		998.1551	998.1551	0.0243	0.1475	1,042.721 7
Worker	0.2735	0.1116	2.1850	6.3400e-003	0.7911	3.3500e-003	0.7945	0.2099	3.0800e-003	0.2129		671.5495	671.5495	0.0138	0.0141	676.1088
<b>Total</b>	<b>0.3346</b>	<b>2.3761</b>	<b>2.8813</b>	<b>0.0156</b>	<b>1.1103</b>	<b>0.0160</b>	<b>1.1263</b>	<b>0.3017</b>	<b>0.0152</b>	<b>0.3169</b>		<b>1,669.704 6</b>	<b>1,669.704 6</b>	<b>0.0381</b>	<b>0.1617</b>	<b>1,718.830 6</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0611	2.2645	0.6963	9.2900e-003	0.3192	0.0126	0.3318	0.0919	0.0121	0.1039		998.1551	998.1551	0.0243	0.1475	1,042.721 7
Worker	0.2735	0.1116	2.1850	6.3400e-003	0.7911	3.3500e-003	0.7945	0.2099	3.0800e-003	0.2129		671.5495	671.5495	0.0138	0.0141	676.1088
<b>Total</b>	<b>0.3346</b>	<b>2.3761</b>	<b>2.8813</b>	<b>0.0156</b>	<b>1.1103</b>	<b>0.0160</b>	<b>1.1263</b>	<b>0.3017</b>	<b>0.0152</b>	<b>0.3169</b>		<b>1,669.704 6</b>	<b>1,669.704 6</b>	<b>0.0381</b>	<b>0.1617</b>	<b>1,718.830 6</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0593	2.2279	0.6866	9.1000e-003	0.3192	0.0124	0.3315	0.0919	0.0118	0.1037		977.6228	977.6228	0.0238	0.1447	1,021.343 1
Worker	0.2588	0.1030	2.0814	6.1700e-003	0.7911	3.1400e-003	0.7943	0.2099	2.8900e-003	0.2128		657.6798	657.6798	0.0127	0.0135	662.0226
<b>Total</b>	<b>0.3181</b>	<b>2.3309</b>	<b>2.7680</b>	<b>0.0153</b>	<b>1.1103</b>	<b>0.0155</b>	<b>1.1258</b>	<b>0.3017</b>	<b>0.0147</b>	<b>0.3164</b>		<b>1,635.302 6</b>	<b>1,635.302 6</b>	<b>0.0365</b>	<b>0.1582</b>	<b>1,683.365 7</b>



Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0593	2.2279	0.6866	9.1000e-003	0.3192	0.0124	0.3315	0.0919	0.0118	0.1037		977.6228	977.6228	0.0238	0.1447	1,021.343 1
Worker	0.2588	0.1030	2.0814	6.1700e-003	0.7911	3.1400e-003	0.7943	0.2099	2.8900e-003	0.2128		657.6798	657.6798	0.0127	0.0135	662.0226
<b>Total</b>	<b>0.3181</b>	<b>2.3309</b>	<b>2.7680</b>	<b>0.0153</b>	<b>1.1103</b>	<b>0.0155</b>	<b>1.1258</b>	<b>0.3017</b>	<b>0.0147</b>	<b>0.3164</b>		<b>1,635.302 6</b>	<b>1,635.302 6</b>	<b>0.0365</b>	<b>0.1582</b>	<b>1,683.365 7</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0577	2.1938	0.6782	8.9200e-003	0.3191	0.0121	0.3312	0.0918	0.0116	0.1034		958.4084	958.4084	0.0234	0.1421	1,001.331 3
Worker	0.2443	0.0956	1.9922	6.0100e-003	0.7911	2.9400e-003	0.7941	0.2099	2.7100e-003	0.2126		645.2345	645.2345	0.0117	0.0130	649.3941
<b>Total</b>	<b>0.3020</b>	<b>2.2895</b>	<b>2.6704</b>	<b>0.0149</b>	<b>1.1103</b>	<b>0.0150</b>	<b>1.1253</b>	<b>0.3017</b>	<b>0.0143</b>	<b>0.3160</b>		<b>1,603.642 9</b>	<b>1,603.642 9</b>	<b>0.0351</b>	<b>0.1551</b>	<b>1,650.725 4</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0577	2.1938	0.6782	8.9200e-003	0.3191	0.0121	0.3312	0.0918	0.0116	0.1034		958.4084	958.4084	0.0234	0.1421	1,001.331 3
Worker	0.2443	0.0956	1.9922	6.0100e-003	0.7911	2.9400e-003	0.7941	0.2099	2.7100e-003	0.2126		645.2345	645.2345	0.0117	0.0130	649.3941
<b>Total</b>	<b>0.3020</b>	<b>2.2895</b>	<b>2.6704</b>	<b>0.0149</b>	<b>1.1103</b>	<b>0.0150</b>	<b>1.1253</b>	<b>0.3017</b>	<b>0.0143</b>	<b>0.3160</b>		<b>1,603.642 9</b>	<b>1,603.642 9</b>	<b>0.0351</b>	<b>0.1551</b>	<b>1,650.725 4</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0352</b>	<b>0.0138</b>	<b>0.2873</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>93.0627</b>	<b>93.0627</b>	<b>1.6900e-003</b>	<b>1.8700e-003</b>	<b>93.6626</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0352</b>	<b>0.0138</b>	<b>0.2873</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>93.0627</b>	<b>93.0627</b>	<b>1.6900e-003</b>	<b>1.8700e-003</b>	<b>93.6626</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	88.6103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>88.7812</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0493	0.0193	0.4023	1.2100e-003	0.1598	5.9000e-004	0.1603	0.0424	5.5000e-004	0.0429		130.2877	130.2877	2.3700e-003	2.6200e-003	131.1277
<b>Total</b>	<b>0.0493</b>	<b>0.0193</b>	<b>0.4023</b>	<b>1.2100e-003</b>	<b>0.1598</b>	<b>5.9000e-004</b>	<b>0.1603</b>	<b>0.0424</b>	<b>5.5000e-004</b>	<b>0.0429</b>		<b>130.2877</b>	<b>130.2877</b>	<b>2.3700e-003</b>	<b>2.6200e-003</b>	<b>131.1277</b>

Innovation Park - CNU - Phase 2A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	88.6103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>88.6400</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0493	0.0193	0.4023	1.2100e-003	0.1598	5.9000e-004	0.1603	0.0424	5.5000e-004	0.0429		130.2877	130.2877	2.3700e-003	2.6200e-003	131.1277
<b>Total</b>	<b>0.0493</b>	<b>0.0193</b>	<b>0.4023</b>	<b>1.2100e-003</b>	<b>0.1598</b>	<b>5.9000e-004</b>	<b>0.1603</b>	<b>0.0424</b>	<b>5.5000e-004</b>	<b>0.0429</b>		<b>130.2877</b>	<b>130.2877</b>	<b>2.3700e-003</b>	<b>2.6200e-003</b>	<b>131.1277</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU - Phase 2B**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	430.00	Space	3.87	181,000.00	0
Strip Mall	26.00	1000sqft	0.60	26,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2029
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Retail/Parking Building 1

Land Use - Parking/retail

Construction Phase - Construction schedule adjusted

Trips and VMT - 20 trucks/day for grade/demo/site prep

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	5.00	8.00
tblConstructionPhase	NumDays	8.00	13.00
tblConstructionPhase	NumDays	230.00	286.00

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	18.00	22.00
tblLandUse	LandUseSquareFeet	172,000.00	181,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	600.00
tblTripsAndVMT	HaulingTripNumber	0.00	160.00
tblTripsAndVMT	HaulingTripNumber	0.00	260.00

**2.0 Emissions Summary**

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Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	3.2228	31.9532	33.6884	0.0796	20.1423	1.1830	21.2506	10.2341	1.1003	11.2545	0.0000	7,913.7148	7,913.7148	1.6073	0.3008	8,043.5457
2029	13.4543	13.9543	18.1288	0.0375	0.8437	0.5377	1.3814	0.2284	0.5059	0.7343	0.0000	3,692.4533	3,692.4533	0.6254	0.1016	3,738.3722
<b>Maximum</b>	<b>13.4543</b>	<b>31.9532</b>	<b>33.6884</b>	<b>0.0796</b>	<b>20.1423</b>	<b>1.1830</b>	<b>21.2506</b>	<b>10.2341</b>	<b>1.1003</b>	<b>11.2545</b>	<b>0.0000</b>	<b>7,913.7148</b>	<b>7,913.7148</b>	<b>1.6073</b>	<b>0.3008</b>	<b>8,043.5457</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					
2028	1.0238	7.9772	38.2765	0.0796	9.3310	0.1211	9.4145	4.6778	0.1196	4.7604	0.0000	7,913.7148	7,913.7148	1.6073	0.3008	8,043.5457
2029	13.3131	3.7193	19.5044	0.0375	0.8437	0.0509	0.8946	0.2284	0.0504	0.2788	0.0000	3,692.4533	3,692.4533	0.6254	0.1016	3,738.3722
<b>Maximum</b>	<b>13.3131</b>	<b>7.9772</b>	<b>38.2765</b>	<b>0.0796</b>	<b>9.3310</b>	<b>0.1211</b>	<b>9.4145</b>	<b>4.6778</b>	<b>0.1196</b>	<b>4.7604</b>	<b>0.0000</b>	<b>7,913.7148</b>	<b>7,913.7148</b>	<b>1.6073</b>	<b>0.3008</b>	<b>8,043.5457</b>

## Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	14.03	74.52	-11.51	0.00	51.52	90.00	54.45	53.11	89.42	57.97	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7046	4.2000e-004	0.0464	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0998	0.0998	2.6000e-004		0.1063
Energy	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0024	45.0024	8.6000e-004	8.3000e-004	45.2698
Mobile	2.5324	1.7072	14.4463	0.0265	2.9856	0.0194	3.0050	0.7956	0.0181	0.8137		2,844.3090	2,844.3090	0.2080	0.1457	2,892.9343
<b>Total</b>	<b>3.2411</b>	<b>1.7451</b>	<b>14.5243</b>	<b>0.0268</b>	<b>2.9856</b>	<b>0.0224</b>	<b>3.0080</b>	<b>0.7956</b>	<b>0.0211</b>	<b>0.8167</b>		<b>2,889.4112</b>	<b>2,889.4112</b>	<b>0.2091</b>	<b>0.1466</b>	<b>2,938.3104</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	0.7046	4.2000e-004	0.0464	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0998	0.0998	2.6000e-004		0.1063
Energy	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0024	45.0024	8.6000e-004	8.3000e-004	45.2698
Mobile	2.5324	1.7072	14.4463	0.0265	2.9856	0.0194	3.0050	0.7956	0.0181	0.8137		2,844.3090	2,844.3090	0.2080	0.1457	2,892.9343
<b>Total</b>	<b>3.2411</b>	<b>1.7451</b>	<b>14.5243</b>	<b>0.0268</b>	<b>2.9856</b>	<b>0.0224</b>	<b>3.0080</b>	<b>0.7956</b>	<b>0.0211</b>	<b>0.8167</b>		<b>2,889.4112</b>	<b>2,889.4112</b>	<b>0.2091</b>	<b>0.1466</b>	<b>2,938.3104</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/17/2028	4/27/2028	5	30	
2	Site Preparation	Site Preparation	4/28/2028	5/9/2028	5	8	
3	Grading	Grading	5/10/2028	5/26/2028	5	13	
4	Building Construction	Building Construction	5/26/2028	6/29/2029	5	286	
5	Paving	Paving	7/2/2029	7/31/2029	5	22	
6	Architectural Coating	Architectural Coating	8/1/2029	8/31/2029	5	22	

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 13**

**Acres of Paving: 3.87**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 39,000; Non-Residential Outdoor: 13,000; Striped Parking Area: 10,860 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Grading	Excavators	1	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	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	600.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	160.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	260.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	84.00	34.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Water Exposed Area

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0484	2.6416	0.6417	0.0113	0.3484	0.0209	0.3693	0.0954	0.0200	0.1154		1,230.3205	1,230.3205	0.0495	0.1951	1,289.7113
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0373	0.0149	0.3002	8.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		94.8577	94.8577	1.8300e-003	1.9500e-003	95.4840
<b>Total</b>	<b>0.0857</b>	<b>2.6564</b>	<b>0.9419</b>	<b>0.0121</b>	<b>0.4625</b>	<b>0.0214</b>	<b>0.4839</b>	<b>0.1256</b>	<b>0.0205</b>	<b>0.1461</b>		<b>1,325.1781</b>	<b>1,325.1781</b>	<b>0.0514</b>	<b>0.1971</b>	<b>1,385.1953</b>



Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0484	2.6416	0.6417	0.0113	0.3484	0.0209	0.3693	0.0954	0.0200	0.1154		1,230.3205	1,230.3205	0.0495	0.1951	1,289.7113
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0373	0.0149	0.3002	8.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		94.8577	94.8577	1.8300e-003	1.9500e-003	95.4840
<b>Total</b>	<b>0.0857</b>	<b>2.6564</b>	<b>0.9419</b>	<b>0.0121</b>	<b>0.4625</b>	<b>0.0214</b>	<b>0.4839</b>	<b>0.1256</b>	<b>0.0205</b>	<b>0.1461</b>		<b>1,325.1781</b>	<b>1,325.1781</b>	<b>0.0514</b>	<b>0.1971</b>	<b>1,385.1953</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0484	2.6416	0.6417	0.0113	0.3484	0.0209	0.3693	0.0954	0.0200	0.1154		1,230.3205	1,230.3205	0.0495	0.1951	1,289.7113
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0448	0.0178	0.3603	1.0700e-003	0.1369	5.4000e-004	0.1375	0.0363	5.0000e-004	0.0368		113.8292	113.8292	2.2000e-003	2.3400e-003	114.5808
<b>Total</b>	<b>0.0932</b>	<b>2.6594</b>	<b>1.0019</b>	<b>0.0123</b>	<b>0.4853</b>	<b>0.0215</b>	<b>0.5068</b>	<b>0.1317</b>	<b>0.0205</b>	<b>0.1522</b>		<b>1,344.1497</b>	<b>1,344.1497</b>	<b>0.0517</b>	<b>0.1975</b>	<b>1,404.2921</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2028**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0484	2.6416	0.6417	0.0113	0.3484	0.0209	0.3693	0.0954	0.0200	0.1154		1,230.3205	1,230.3205	0.0495	0.1951	1,289.7113
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0448	0.0178	0.3603	1.0700e-003	0.1369	5.4000e-004	0.1375	0.0363	5.0000e-004	0.0368		113.8292	113.8292	2.2000e-003	2.3400e-003	114.5808
<b>Total</b>	<b>0.0932</b>	<b>2.6594</b>	<b>1.0019</b>	<b>0.0123</b>	<b>0.4853</b>	<b>0.0215</b>	<b>0.5068</b>	<b>0.1317</b>	<b>0.0205</b>	<b>0.1522</b>		<b>1,344.1497</b>	<b>1,344.1497</b>	<b>0.0517</b>	<b>0.1975</b>	<b>1,404.2921</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>1.5227</b>	<b>15.3148</b>	<b>14.5402</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.6236</b>	<b>7.7062</b>	<b>3.4247</b>	<b>0.5737</b>	<b>3.9984</b>		<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0484	2.6416	0.6417	0.0113	0.3484	0.0209	0.3693	0.0954	0.0200	0.1154		1,230.320 5	1,230.320 5	0.0495	0.1951	1,289.7113
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0373	0.0149	0.3002	8.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		94.8577	94.8577	1.8300e-003	1.9500e-003	95.4840
<b>Total</b>	<b>0.0857</b>	<b>2.6564</b>	<b>0.9419</b>	<b>0.0121</b>	<b>0.4625</b>	<b>0.0214</b>	<b>0.4839</b>	<b>0.1256</b>	<b>0.0205</b>	<b>0.1461</b>		<b>1,325.178 1</b>	<b>1,325.178 1</b>	<b>0.0514</b>	<b>0.1971</b>	<b>1,385.195 3</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2028**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0484	2.6416	0.6417	0.0113	0.3484	0.0209	0.3693	0.0954	0.0200	0.1154		1,230.320 5	1,230.320 5	0.0495	0.1951	1,289.7113
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0373	0.0149	0.3002	8.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		94.8577	94.8577	1.8300e-003	1.9500e-003	95.4840
<b>Total</b>	<b>0.0857</b>	<b>2.6564</b>	<b>0.9419</b>	<b>0.0121</b>	<b>0.4625</b>	<b>0.0214</b>	<b>0.4839</b>	<b>0.1256</b>	<b>0.0205</b>	<b>0.1461</b>		<b>1,325.178 1</b>	<b>1,325.178 1</b>	<b>0.0514</b>	<b>0.1971</b>	<b>1,385.195 3</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0381	1.4292	0.4405	5.8400e-003	0.2047	7.9200e-003	0.2127	0.0589	7.5800e-003	0.0665		627.1543	627.1543	0.0153	0.0928	655.2012
Worker	0.2090	0.0832	1.6812	4.9800e-003	0.6390	2.5400e-003	0.6415	0.1695	2.3400e-003	0.1718		531.2029	531.2029	0.0103	0.0109	534.7106
<b>Total</b>	<b>0.2470</b>	<b>1.5124</b>	<b>2.1216</b>	<b>0.0108</b>	<b>0.8437</b>	<b>0.0105</b>	<b>0.8542</b>	<b>0.2284</b>	<b>9.9200e-003</b>	<b>0.2383</b>		<b>1,158.357 2</b>	<b>1,158.357 2</b>	<b>0.0255</b>	<b>0.1038</b>	<b>1,189.911 8</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0381	1.4292	0.4405	5.8400e-003	0.2047	7.9200e-003	0.2127	0.0589	7.5800e-003	0.0665		627.1543	627.1543	0.0153	0.0928	655.2012
Worker	0.2090	0.0832	1.6812	4.9800e-003	0.6390	2.5400e-003	0.6415	0.1695	2.3400e-003	0.1718		531.2029	531.2029	0.0103	0.0109	534.7106
<b>Total</b>	<b>0.2470</b>	<b>1.5124</b>	<b>2.1216</b>	<b>0.0108</b>	<b>0.8437</b>	<b>0.0105</b>	<b>0.8542</b>	<b>0.2284</b>	<b>9.9200e-003</b>	<b>0.2383</b>		<b>1,158.357 2</b>	<b>1,158.357 2</b>	<b>0.0255</b>	<b>0.1038</b>	<b>1,189.911 8</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0370	1.4074	0.4351	5.7200e-003	0.2047	7.7600e-003	0.2125	0.0589	7.4200e-003	0.0663		614.8280	614.8280	0.0150	0.0911	642.3635
Worker	0.1973	0.0772	1.6091	4.8500e-003	0.6390	2.3800e-003	0.6414	0.1695	2.1900e-003	0.1717		521.1509	521.1509	9.4900e-003	0.0105	524.5106
<b>Total</b>	<b>0.2343</b>	<b>1.4846</b>	<b>2.0442</b>	<b>0.0106</b>	<b>0.8437</b>	<b>0.0101</b>	<b>0.8539</b>	<b>0.2284</b>	<b>9.6100e-003</b>	<b>0.2380</b>		<b>1,135.978 9</b>	<b>1,135.978 9</b>	<b>0.0245</b>	<b>0.1016</b>	<b>1,166.874 1</b>



Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0370	1.4074	0.4351	5.7200e-003	0.2047	7.7600e-003	0.2125	0.0589	7.4200e-003	0.0663		614.8280	614.8280	0.0150	0.0911	642.3635
Worker	0.1973	0.0772	1.6091	4.8500e-003	0.6390	2.3800e-003	0.6414	0.1695	2.1900e-003	0.1717		521.1509	521.1509	9.4900e-003	0.0105	524.5106
<b>Total</b>	<b>0.2343</b>	<b>1.4846</b>	<b>2.0442</b>	<b>0.0106</b>	<b>0.8437</b>	<b>0.0101</b>	<b>0.8539</b>	<b>0.2284</b>	<b>9.6100e-003</b>	<b>0.2380</b>		<b>1,135.978 9</b>	<b>1,135.978 9</b>	<b>0.0245</b>	<b>0.1016</b>	<b>1,166.874 1</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8197</b>	<b>7.5321</b>	<b>12.1778</b>	<b>0.0189</b>		<b>0.3524</b>	<b>0.3524</b>		<b>0.3259</b>	<b>0.3259</b>		<b>1,805.3926</b>	<b>1,805.3926</b>	<b>0.5673</b>		<b>1,819.5741</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0470	0.0184	0.3831	1.1600e-003	0.1521	5.7000e-004	0.1527	0.0404	5.2000e-004	0.0409		124.0836	124.0836	2.2600e-003	2.4900e-003	124.8835
<b>Total</b>	<b>0.0470</b>	<b>0.0184</b>	<b>0.3831</b>	<b>1.1600e-003</b>	<b>0.1521</b>	<b>5.7000e-004</b>	<b>0.1527</b>	<b>0.0404</b>	<b>5.2000e-004</b>	<b>0.0409</b>		<b>124.0836</b>	<b>124.0836</b>	<b>2.2600e-003</b>	<b>2.4900e-003</b>	<b>124.8835</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2194</b>	<b>0.9509</b>	<b>13.5323</b>	<b>0.0189</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0293</b>	<b>0.0293</b>	<b>0.0000</b>	<b>1,805.3926</b>	<b>1,805.3926</b>	<b>0.5673</b>		<b>1,819.5741</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0470	0.0184	0.3831	1.1600e-003	0.1521	5.7000e-004	0.1527	0.0404	5.2000e-004	0.0409		124.0836	124.0836	2.2600e-003	2.4900e-003	124.8835
<b>Total</b>	<b>0.0470</b>	<b>0.0184</b>	<b>0.3831</b>	<b>1.1600e-003</b>	<b>0.1521</b>	<b>5.7000e-004</b>	<b>0.1527</b>	<b>0.0404</b>	<b>5.2000e-004</b>	<b>0.0409</b>		<b>124.0836</b>	<b>124.0836</b>	<b>2.2600e-003</b>	<b>2.4900e-003</b>	<b>124.8835</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	13.2435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>13.4143</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0399	0.0156	0.3257	9.8000e-004	0.1293	4.8000e-004	0.1298	0.0343	4.4000e-004	0.0348		105.4710	105.4710	1.9200e-003	2.1200e-003	106.1510
<b>Total</b>	<b>0.0399</b>	<b>0.0156</b>	<b>0.3257</b>	<b>9.8000e-004</b>	<b>0.1293</b>	<b>4.8000e-004</b>	<b>0.1298</b>	<b>0.0343</b>	<b>4.4000e-004</b>	<b>0.0348</b>		<b>105.4710</b>	<b>105.4710</b>	<b>1.9200e-003</b>	<b>2.1200e-003</b>	<b>106.1510</b>

Innovation Park CNU - Phase 2B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	13.2435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>13.2732</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0399	0.0156	0.3257	9.8000e-004	0.1293	4.8000e-004	0.1298	0.0343	4.4000e-004	0.0348		105.4710	105.4710	1.9200e-003	2.1200e-003	106.1510
<b>Total</b>	<b>0.0399</b>	<b>0.0156</b>	<b>0.3257</b>	<b>9.8000e-004</b>	<b>0.1293</b>	<b>4.8000e-004</b>	<b>0.1298</b>	<b>0.0343</b>	<b>4.4000e-004</b>	<b>0.0348</b>		<b>105.4710</b>	<b>105.4710</b>	<b>1.9200e-003</b>	<b>2.1200e-003</b>	<b>106.1510</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2C**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	38.00	1000sqft	0.87	38,000.00	0
Enclosed Parking Structure	127.00	Space	1.14	38,000.00	0
Apartments Mid Rise	250.00	Dwelling Unit	6.58	154,000.00	668

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2025
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - Admin/ Dormitory Building 1 and Faculty Building 1 construction only

Land Use - Dorm 1 and Faculty bldg 1

Construction Phase - adjusted schedule13

Trips and VMT - 15 trucks per day for site prep, demo, grade

Grading -

Area Coating -

Construction Off-road Equipment Mitigation - Tier 4 MM + Dust BMPs

Area Mitigation -

Fleet Mix -

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	10.00	8.00

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	230.00	154.00
tblConstructionPhase	NumDays	20.00	14.00
tblConstructionPhase	NumDays	20.00	14.00
tblLandUse	LandUseSquareFeet	50,800.00	38,000.00
tblLandUse	LandUseSquareFeet	250,000.00	154,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	HaulingTripNumber	0.00	120.00
tblTripsAndVMT	HaulingTripNumber	0.00	255.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.9248	34.7641	37.5900	0.0881	20.0555	1.3732	21.3026	10.2104	1.2770	11.3584	0.0000	8,765.0374	8,765.0374	1.6321	0.3109	8,898.4777
2025	163.8707	14.4730	21.5286	0.0476	1.8172	0.5447	2.3619	0.4873	0.5124	0.9997	0.0000	4,730.3208	4,730.3208	0.7161	0.1444	4,789.6734
<b>Maximum</b>	<b>163.8707</b>	<b>34.7641</b>	<b>37.5900</b>	<b>0.0881</b>	<b>20.0555</b>	<b>1.3732</b>	<b>21.3026</b>	<b>10.2104</b>	<b>1.2770</b>	<b>11.3584</b>	<b>0.0000</b>	<b>8,765.0374</b>	<b>8,765.0374</b>	<b>1.6321</b>	<b>0.3109</b>	<b>8,898.4777</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					
2024	1.4826	8.0977	41.8767	0.0881	9.2441	0.1247	9.3240	4.6540	0.1228	4.7332	0.0000	8,765.0374	8,765.0374	1.6321	0.3109	8,898.4777
2025	163.7296	4.2380	22.9042	0.0476	1.8172	0.0580	1.8751	0.4873	0.0569	0.5443	0.0000	4,730.3208	4,730.3208	0.7161	0.1444	4,789.6734
<b>Maximum</b>	<b>163.7296</b>	<b>8.0977</b>	<b>41.8767</b>	<b>0.0881</b>	<b>9.2441</b>	<b>0.1247</b>	<b>9.3240</b>	<b>4.6540</b>	<b>0.1228</b>	<b>4.7332</b>	<b>0.0000</b>	<b>8,765.0374</b>	<b>8,765.0374</b>	<b>1.6321</b>	<b>0.3109</b>	<b>8,898.4777</b>

## Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.54	74.95	-9.58	0.00	49.43	90.48	52.68	51.94	89.95	57.30	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.3699	0.2375	20.6226	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	37.1742	37.1742	0.0357	0.0000	38.0656
Energy	0.0841	0.7269	0.3642	4.5900e-003		0.0581	0.0581		0.0581	0.0581		917.7430	917.7430	0.0176	0.0168	923.1966
Mobile	5.3677	5.0337	42.0001	0.0874	8.9693	0.0644	9.0336	2.3910	0.0601	2.4511		8,916.6696	8,916.6696	0.5542	0.4027	9,050.5269
<b>Total</b>	<b>10.8217</b>	<b>5.9981</b>	<b>62.9868</b>	<b>0.0931</b>	<b>8.9693</b>	<b>0.2369</b>	<b>9.2062</b>	<b>2.3910</b>	<b>0.2326</b>	<b>2.6236</b>	<b>0.0000</b>	<b>9,871.5868</b>	<b>9,871.5868</b>	<b>0.6075</b>	<b>0.4195</b>	<b>10,011.7892</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	5.3699	0.2375	20.6226	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	37.1742	37.1742	0.0357	0.0000	38.0656
Energy	0.0841	0.7269	0.3642	4.5900e-003		0.0581	0.0581		0.0581	0.0581		917.7430	917.7430	0.0176	0.0168	923.1966
Mobile	5.3677	5.0337	42.0001	0.0874	8.9693	0.0644	9.0336	2.3910	0.0601	2.4511		8,916.6696	8,916.6696	0.5542	0.4027	9,050.5269
<b>Total</b>	<b>10.8217</b>	<b>5.9981</b>	<b>62.9868</b>	<b>0.0931</b>	<b>8.9693</b>	<b>0.2369</b>	<b>9.2062</b>	<b>2.3910</b>	<b>0.2326</b>	<b>2.6236</b>	<b>0.0000</b>	<b>9,871.5868</b>	<b>9,871.5868</b>	<b>0.6075</b>	<b>0.4195</b>	<b>10,011.7892</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/2/2024	10/23/2024	5	16	
2	Site Preparation	Site Preparation	10/24/2024	11/4/2024	5	8	
3	Grading	Grading	11/5/2024	11/27/2024	5	17	
4	Building Construction	Building Construction	11/27/2024	6/30/2025	5	154	
5	Paving	Paving	7/1/2025	7/18/2025	5	14	
6	Architectural Coating	Architectural Coating	7/21/2025	8/6/2025	5	14	

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 1.14**

**Residential Indoor: 311,850; Residential Outdoor: 103,950; Non-Residential Indoor: 57,000; Non-Residential Outdoor: 19,000; Striped Parking Area: 2,280 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	120.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	255.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	208.00	39.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
<b>Total</b>	<b>2.2437</b>	<b>20.8781</b>	<b>19.7073</b>	<b>0.0388</b>		<b>0.9602</b>	<b>0.9602</b>		<b>0.8922</b>	<b>0.8922</b>		<b>3,747.4228</b>	<b>3,747.4228</b>	<b>1.0485</b>		<b>3,773.6345</b>

**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	0.0398	2.1977	0.4777	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0164	0.0880		1,007.2980	1,007.2980	0.0401	0.1597	1,055.8967
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0472	0.0216	0.3795	1.0100e-003	0.1141	5.6000e-004	0.1147	0.0303	5.2000e-004	0.0308		104.0629	104.0629	2.6500e-003	2.4400e-003	104.8559
<b>Total</b>	<b>0.0870</b>	<b>2.2193</b>	<b>0.8571</b>	<b>0.0102</b>	<b>0.3756</b>	<b>0.0177</b>	<b>0.3934</b>	<b>0.1019</b>	<b>0.0170</b>	<b>0.1188</b>		<b>1,111.3609</b>	<b>1,111.3609</b>	<b>0.0427</b>	<b>0.1622</b>	<b>1,160.7525</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.4228</b>	<b>3,747.4228</b>	<b>1.0485</b>		<b>3,773.6345</b>

**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	0.0398	2.1977	0.4777	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0164	0.0880		1,007.2980	1,007.2980	0.0401	0.1597	1,055.8967
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0472	0.0216	0.3795	1.0100e-003	0.1141	5.6000e-004	0.1147	0.0303	5.2000e-004	0.0308		104.0629	104.0629	2.6500e-003	2.4400e-003	104.8559
<b>Total</b>	<b>0.0870</b>	<b>2.2193</b>	<b>0.8571</b>	<b>0.0102</b>	<b>0.3756</b>	<b>0.0177</b>	<b>0.3934</b>	<b>0.1019</b>	<b>0.0170</b>	<b>0.1188</b>		<b>1,111.3609</b>	<b>1,111.3609</b>	<b>0.0427</b>	<b>0.1622</b>	<b>1,160.7525</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**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	0.0398	2.1977	0.4777	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0164	0.0880		1,007.2980	1,007.2980	0.0401	0.1597	1,055.8967
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0260	0.4554	1.2100e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		124.8755	124.8755	3.1800e-003	2.9300e-003	125.8270
<b>Total</b>	<b>0.0964</b>	<b>2.2237</b>	<b>0.9330</b>	<b>0.0104</b>	<b>0.3984</b>	<b>0.0178</b>	<b>0.4163</b>	<b>0.1079</b>	<b>0.0171</b>	<b>0.1250</b>		<b>1,132.1735</b>	<b>1,132.1735</b>	<b>0.0432</b>	<b>0.1627</b>	<b>1,181.7237</b>



Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**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	0.0398	2.1977	0.4777	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0164	0.0880		1,007.298 0	1,007.298 0	0.0401	0.1597	1,055.896 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0260	0.4554	1.2100e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		124.8755	124.8755	3.1800e-003	2.9300e-003	125.8270
<b>Total</b>	<b>0.0964</b>	<b>2.2237</b>	<b>0.9330</b>	<b>0.0104</b>	<b>0.3984</b>	<b>0.0178</b>	<b>0.4163</b>	<b>0.1079</b>	<b>0.0171</b>	<b>0.1250</b>		<b>1,132.173 5</b>	<b>1,132.173 5</b>	<b>0.0432</b>	<b>0.1627</b>	<b>1,181.723 7</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292		2,896.284 2
<b>Total</b>	<b>1.6617</b>	<b>17.0310</b>	<b>14.7594</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7244</b>	<b>7.8070</b>	<b>3.4247</b>	<b>0.6665</b>	<b>4.0912</b>		<b>2,873.054 1</b>	<b>2,873.054 1</b>	<b>0.9292</b>		<b>2,896.284 2</b>

**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	0.0398	2.1977	0.4777	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0164	0.0880		1,007.298 0	1,007.298 0	0.0401	0.1597	1,055.896 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0472	0.0216	0.3795	1.0100e-003	0.1141	5.6000e-004	0.1147	0.0303	5.2000e-004	0.0308		104.0629	104.0629	2.6500e-003	2.4400e-003	104.8559
<b>Total</b>	<b>0.0870</b>	<b>2.2193</b>	<b>0.8571</b>	<b>0.0102</b>	<b>0.3756</b>	<b>0.0177</b>	<b>0.3934</b>	<b>0.1019</b>	<b>0.0170</b>	<b>0.1188</b>		<b>1,111.3609</b>	<b>1,111.3609</b>	<b>0.0427</b>	<b>0.1622</b>	<b>1,160.752 5</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.054 1</b>	<b>2,873.054 1</b>	<b>0.9292</b>		<b>2,896.284 2</b>

**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	0.0398	2.1977	0.4777	9.2300e-003	0.2615	0.0172	0.2787	0.0716	0.0164	0.0880		1,007.298 0	1,007.298 0	0.0401	0.1597	1,055.896 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0472	0.0216	0.3795	1.0100e-003	0.1141	5.6000e-004	0.1147	0.0303	5.2000e-004	0.0308		104.0629	104.0629	2.6500e-003	2.4400e-003	104.8559
<b>Total</b>	<b>0.0870</b>	<b>2.2193</b>	<b>0.8571</b>	<b>0.0102</b>	<b>0.3756</b>	<b>0.0177</b>	<b>0.3934</b>	<b>0.1019</b>	<b>0.0170</b>	<b>0.1188</b>		<b>1,111.3609</b>	<b>1,111.3609</b>	<b>0.0427</b>	<b>0.1622</b>	<b>1,160.752 5</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0499	1.7700	0.5445	7.2900e-003	0.2349	9.9400e-003	0.2449	0.0676	9.5000e-003	0.0771		781.9178	781.9178	0.0192	0.1149	816.6322
Worker	0.6547	0.3000	5.2621	0.0140	1.5823	7.7700e-003	1.5900	0.4197	7.1500e-003	0.4269		1,443.0058	1,443.0058	0.0367	0.0338	1,454.0012
<b>Total</b>	<b>0.7046</b>	<b>2.0700</b>	<b>5.8066</b>	<b>0.0213</b>	<b>1.8172</b>	<b>0.0177</b>	<b>1.8349</b>	<b>0.4873</b>	<b>0.0167</b>	<b>0.5040</b>		<b>2,224.9236</b>	<b>2,224.9236</b>	<b>0.0558</b>	<b>0.1487</b>	<b>2,270.6334</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0499	1.7700	0.5445	7.2900e-003	0.2349	9.9400e-003	0.2449	0.0676	9.5000e-003	0.0771		781.9178	781.9178	0.0192	0.1149	816.6322
Worker	0.6547	0.3000	5.2621	0.0140	1.5823	7.7700e-003	1.5900	0.4197	7.1500e-003	0.4269		1,443.0058	1,443.0058	0.0367	0.0338	1,454.0012
<b>Total</b>	<b>0.7046</b>	<b>2.0700</b>	<b>5.8066</b>	<b>0.0213</b>	<b>1.8172</b>	<b>0.0177</b>	<b>1.8349</b>	<b>0.4873</b>	<b>0.0167</b>	<b>0.5040</b>		<b>2,224.9236</b>	<b>2,224.9236</b>	<b>0.0558</b>	<b>0.1487</b>	<b>2,270.6334</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0481	1.7340	0.5318	7.1400e-003	0.2349	9.7400e-003	0.2447	0.0676	9.3200e-003	0.0769		766.0625	766.0625	0.0188	0.1128	800.1363
Worker	0.6146	0.2693	4.9122	0.0135	1.5823	7.4300e-003	1.5897	0.4197	6.8400e-003	0.4265		1,407.784 0	1,407.784 0	0.0332	0.0316	1,418.039 1
<b>Total</b>	<b>0.6627</b>	<b>2.0033</b>	<b>5.4439</b>	<b>0.0207</b>	<b>1.8172</b>	<b>0.0172</b>	<b>1.8343</b>	<b>0.4873</b>	<b>0.0162</b>	<b>0.5035</b>		<b>2,173.846 5</b>	<b>2,173.846 5</b>	<b>0.0520</b>	<b>0.1444</b>	<b>2,218.175 4</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0481	1.7340	0.5318	7.1400e-003	0.2349	9.7400e-003	0.2447	0.0676	9.3200e-003	0.0769		766.0625	766.0625	0.0188	0.1128	800.1363
Worker	0.6146	0.2693	4.9122	0.0135	1.5823	7.4300e-003	1.5897	0.4197	6.8400e-003	0.4265		1,407.784 0	1,407.784 0	0.0332	0.0316	1,418.039 1
<b>Total</b>	<b>0.6627</b>	<b>2.0033</b>	<b>5.4439</b>	<b>0.0207</b>	<b>1.8172</b>	<b>0.0172</b>	<b>1.8343</b>	<b>0.4873</b>	<b>0.0162</b>	<b>0.5035</b>		<b>2,173.846 5</b>	<b>2,173.846 5</b>	<b>0.0520</b>	<b>0.1444</b>	<b>2,218.175 4</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624
<b>Total</b>	<b>0.0443</b>	<b>0.0194</b>	<b>0.3542</b>	<b>9.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>101.5229</b>	<b>101.5229</b>	<b>2.4000e-003</b>	<b>2.2800e-003</b>	<b>102.2624</b>



Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624
<b>Total</b>	<b>0.0443</b>	<b>0.0194</b>	<b>0.3542</b>	<b>9.7000e-004</b>	<b>0.1141</b>	<b>5.4000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.9000e-004</b>	<b>0.0308</b>		<b>101.5229</b>	<b>101.5229</b>	<b>2.4000e-003</b>	<b>2.2800e-003</b>	<b>102.2624</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	163.5758					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>163.7466</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1241	0.0544	0.9919	2.7300e-003	0.3195	1.5000e-003	0.3210	0.0848	1.3800e-003	0.0861		284.2641	284.2641	6.7100e-003	6.3900e-003	286.3348
<b>Total</b>	<b>0.1241</b>	<b>0.0544</b>	<b>0.9919</b>	<b>2.7300e-003</b>	<b>0.3195</b>	<b>1.5000e-003</b>	<b>0.3210</b>	<b>0.0848</b>	<b>1.3800e-003</b>	<b>0.0861</b>		<b>284.2641</b>	<b>284.2641</b>	<b>6.7100e-003</b>	<b>6.3900e-003</b>	<b>286.3348</b>

Innovation Park CNU Phase 2C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2025**

**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	163.5758					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>163.6055</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1241	0.0544	0.9919	2.7300e-003	0.3195	1.5000e-003	0.3210	0.0848	1.3800e-003	0.0861		284.2641	284.2641	6.7100e-003	6.3900e-003	286.3348
<b>Total</b>	<b>0.1241</b>	<b>0.0544</b>	<b>0.9919</b>	<b>2.7300e-003</b>	<b>0.3195</b>	<b>1.5000e-003</b>	<b>0.3210</b>	<b>0.0848</b>	<b>1.3800e-003</b>	<b>0.0861</b>		<b>284.2641</b>	<b>284.2641</b>	<b>6.7100e-003</b>	<b>6.3900e-003</b>	<b>286.3348</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2D**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Day-Care Center	15.00	1000sqft	0.34	15,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2027
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics - Daycare construction only
- Land Use - daycare part 1
- Construction Phase - schedule adjusted
- Trips and VMT - 15 trips / day for site prep, grade, demo
- Grading -
- Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMP

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	34.00
tblConstructionPhase	NumDays	1.00	3.00
tblConstructionPhase	NumDays	2.00	4.00
tblConstructionPhase	NumDays	100.00	55.00
tblConstructionPhase	NumDays	5.00	3.00
tblConstructionPhase	NumDays	5.00	3.00
tblTripsAndVMT	HaulingTripNumber	0.00	510.00
tblTripsAndVMT	HaulingTripNumber	0.00	45.00
tblTripsAndVMT	HaulingTripNumber	0.00	60.00

**2.0 Emissions Summary**

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	0.6428	7.2523	8.0796	0.0217	0.3375	0.2274	0.5649	0.0918	0.2173	0.3090	0.0000	2,202.983 1	2,202.983 1	0.2471	0.1579	2,256.217 7
2026	46.5237	16.3998	13.2407	0.0356	5.6919	0.6070	6.2989	2.6718	0.5591	3.2309	0.0000	3,566.657 3	3,566.657 3	0.8406	0.1608	3,635.589 0
<b>Maximum</b>	<b>46.5237</b>	<b>16.3998</b>	<b>13.2407</b>	<b>0.0356</b>	<b>5.6919</b>	<b>0.6070</b>	<b>6.2989</b>	<b>2.6718</b>	<b>0.5591</b>	<b>3.2309</b>	<b>0.0000</b>	<b>3,566.657 3</b>	<b>3,566.657 3</b>	<b>0.8406</b>	<b>0.1608</b>	<b>3,635.589 0</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					
2025	0.2011	2.7261	8.5665	0.0217	0.3375	0.0349	0.3724	0.0918	0.0341	0.1259	0.0000	2,202.983 1	2,202.983 1	0.2471	0.1579	2,256.217 7
2026	46.3825	3.5365	15.6995	0.0356	2.7703	0.0590	2.8293	1.2591	0.0582	1.3174	0.0000	3,566.657 3	3,566.657 3	0.8406	0.1608	3,635.589 0
<b>Maximum</b>	<b>46.3825</b>	<b>3.5365</b>	<b>15.6995</b>	<b>0.0356</b>	<b>2.7703</b>	<b>0.0590</b>	<b>2.8293</b>	<b>1.2591</b>	<b>0.0582</b>	<b>1.3174</b>	<b>0.0000</b>	<b>3,566.657 3</b>	<b>3,566.657 3</b>	<b>0.8406</b>	<b>0.1608</b>	<b>3,635.589 0</b>

## Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.24	73.52	-13.82	0.00	48.46	88.75	53.35	51.12	88.10	59.23	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3592	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2800e-003	3.2800e-003	1.0000e-005		3.5000e-003
Energy	6.7000e-003	0.0609	0.0512	3.7000e-004		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003		73.1023	73.1023	1.4000e-003	1.3400e-003	73.5368
Mobile	1.5887	0.9656	7.7024	0.0129	1.3375	0.0104	1.3479	0.3565	9.6500e-003	0.3661		1,311.2075	1,311.2075	0.1179	0.0797	1,337.9117
<b>Total</b>	<b>1.9547</b>	<b>1.0265</b>	<b>7.7551</b>	<b>0.0132</b>	<b>1.3375</b>	<b>0.0150</b>	<b>1.3525</b>	<b>0.3565</b>	<b>0.0143</b>	<b>0.3708</b>		<b>1,384.3131</b>	<b>1,384.3131</b>	<b>0.1193</b>	<b>0.0811</b>	<b>1,411.4519</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	0.3592	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2800e-003	3.2800e-003	1.0000e-005		3.5000e-003
Energy	6.7000e-003	0.0609	0.0512	3.7000e-004		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003		73.1023	73.1023	1.4000e-003	1.3400e-003	73.5368
Mobile	1.5887	0.9656	7.7024	0.0129	1.3375	0.0104	1.3479	0.3565	9.6500e-003	0.3661		1,311.2075	1,311.2075	0.1179	0.0797	1,337.9117
<b>Total</b>	<b>1.9547</b>	<b>1.0265</b>	<b>7.7551</b>	<b>0.0132</b>	<b>1.3375</b>	<b>0.0150</b>	<b>1.3525</b>	<b>0.3565</b>	<b>0.0143</b>	<b>0.3708</b>		<b>1,384.3131</b>	<b>1,384.3131</b>	<b>0.1193</b>	<b>0.0811</b>	<b>1,411.4519</b>



Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/26/2025	1/12/2026	5	34	
2	Site Preparation	Site Preparation	1/13/2026	1/15/2026	5	3	
3	Grading	Grading	1/16/2026	1/21/2026	5	4	
4	Building Construction	Building Construction	1/21/2026	4/7/2026	5	55	
5	Paving	Paving	4/8/2026	4/10/2026	5	3	
6	Architectural Coating	Architectural Coating	4/13/2026	4/15/2026	5	3	

**Acres of Grading (Site Preparation Phase): 1.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	510.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	45.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	60.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	6.00	2.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008		1,149.1195	1,149.1195	0.2060		1,154.2705
<b>Total</b>	<b>0.5743</b>	<b>5.1008</b>	<b>7.3641</b>	<b>0.0120</b>		<b>0.2102</b>	<b>0.2102</b>		<b>0.2008</b>	<b>0.2008</b>		<b>1,149.1195</b>	<b>1,149.1195</b>	<b>0.2060</b>		<b>1,154.2705</b>

**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	0.0389	2.1385	0.4794	9.0300e-003	0.2615	0.0168	0.2783	0.0716	0.0161	0.0877		986.1817	986.1817	0.0394	0.1564	1,033.7722
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0296	0.0130	0.2362	6.5000e-004	0.0761	3.6000e-004	0.0764	0.0202	3.3000e-004	0.0205		67.6819	67.6819	1.6000e-003	1.5200e-003	68.1750
<b>Total</b>	<b>0.0684</b>	<b>2.1515</b>	<b>0.7156</b>	<b>9.6800e-003</b>	<b>0.3375</b>	<b>0.0172</b>	<b>0.3547</b>	<b>0.0918</b>	<b>0.0164</b>	<b>0.1082</b>		<b>1,053.8636</b>	<b>1,053.8636</b>	<b>0.0410</b>	<b>0.1579</b>	<b>1,101.9472</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705
<b>Total</b>	<b>0.1326</b>	<b>0.5747</b>	<b>7.8509</b>	<b>0.0120</b>		<b>0.0177</b>	<b>0.0177</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>1,149.1195</b>	<b>1,149.1195</b>	<b>0.2060</b>		<b>1,154.2705</b>

**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	0.0389	2.1385	0.4794	9.0300e-003	0.2615	0.0168	0.2783	0.0716	0.0161	0.0877		986.1817	986.1817	0.0394	0.1564	1,033.7722
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0296	0.0130	0.2362	6.5000e-004	0.0761	3.6000e-004	0.0764	0.0202	3.3000e-004	0.0205		67.6819	67.6819	1.6000e-003	1.5200e-003	68.1750
<b>Total</b>	<b>0.0684</b>	<b>2.1515</b>	<b>0.7156</b>	<b>9.6800e-003</b>	<b>0.3375</b>	<b>0.0172</b>	<b>0.3547</b>	<b>0.0918</b>	<b>0.0164</b>	<b>0.1082</b>		<b>1,053.8636</b>	<b>1,053.8636</b>	<b>0.0410</b>	<b>0.1579</b>	<b>1,101.9472</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008		1,149.1195	1,149.1195	0.2060		1,154.2705
<b>Total</b>	<b>0.5743</b>	<b>5.1008</b>	<b>7.3641</b>	<b>0.0120</b>		<b>0.2102</b>	<b>0.2102</b>		<b>0.2008</b>	<b>0.2008</b>		<b>1,149.1195</b>	<b>1,149.1195</b>	<b>0.2060</b>		<b>1,154.2705</b>

**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	0.0379	2.0802	0.4801	8.8300e-003	0.2614	0.0164	0.2778	0.0716	0.0157	0.0873		965.4064	965.4064	0.0387	0.1531	1,012.0005
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0279	0.0117	0.2221	6.3000e-004	0.0761	3.4000e-004	0.0764	0.0202	3.1000e-004	0.0205		66.0629	66.0629	1.4500e-003	1.4300e-003	66.5263
<b>Total</b>	<b>0.0658</b>	<b>2.0920</b>	<b>0.7022</b>	<b>9.4600e-003</b>	<b>0.3375</b>	<b>0.0168</b>	<b>0.3542</b>	<b>0.0917</b>	<b>0.0160</b>	<b>0.1078</b>		<b>1,031.4694</b>	<b>1,031.4694</b>	<b>0.0401</b>	<b>0.1545</b>	<b>1,078.5268</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705
<b>Total</b>	<b>0.1326</b>	<b>0.5747</b>	<b>7.8509</b>	<b>0.0120</b>		<b>0.0177</b>	<b>0.0177</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>1,149.1195</b>	<b>1,149.1195</b>	<b>0.2060</b>		<b>1,154.2705</b>

**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	0.0379	2.0802	0.4801	8.8300e-003	0.2614	0.0164	0.2778	0.0716	0.0157	0.0873		965.4064	965.4064	0.0387	0.1531	1,012.0005
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0279	0.0117	0.2221	6.3000e-004	0.0761	3.4000e-004	0.0764	0.0202	3.1000e-004	0.0205		66.0629	66.0629	1.4500e-003	1.4300e-003	66.5263
<b>Total</b>	<b>0.0658</b>	<b>2.0920</b>	<b>0.7022</b>	<b>9.4600e-003</b>	<b>0.3375</b>	<b>0.0168</b>	<b>0.3542</b>	<b>0.0917</b>	<b>0.0160</b>	<b>0.1078</b>		<b>1,031.4694</b>	<b>1,031.4694</b>	<b>0.0401</b>	<b>0.1545</b>	<b>1,078.5268</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521		942.2955	942.2955	0.3048		949.9144
<b>Total</b>	<b>0.4432</b>	<b>4.7918</b>	<b>3.8238</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.1654</b>	<b>0.6956</b>	<b>0.0573</b>	<b>0.1521</b>	<b>0.2094</b>		<b>942.2955</b>	<b>942.2955</b>	<b>0.3048</b>		<b>949.9144</b>

**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	0.0379	2.0802	0.4801	8.8300e-003	0.2614	0.0164	0.2778	0.0716	0.0157	0.0873		965.4064	965.4064	0.0387	0.1531	1,012.0005
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0139	5.8700e-003	0.1110	3.1000e-004	0.0380	1.7000e-004	0.0382	0.0101	1.6000e-004	0.0103		33.0315	33.0315	7.3000e-004	7.2000e-004	33.2632
<b>Total</b>	<b>0.0519</b>	<b>2.0861</b>	<b>0.5911</b>	<b>9.1400e-003</b>	<b>0.2994</b>	<b>0.0166</b>	<b>0.3160</b>	<b>0.0817</b>	<b>0.0159</b>	<b>0.0975</b>		<b>998.4379</b>	<b>998.4379</b>	<b>0.0394</b>	<b>0.1538</b>	<b>1,045.2637</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2026**

**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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.1191	0.5162	5.3170	9.7300e-003		0.0159	0.0159		0.0159	0.0159	0.0000	942.2955	942.2955	0.3048		949.9144
<b>Total</b>	<b>0.1191</b>	<b>0.5162</b>	<b>5.3170</b>	<b>9.7300e-003</b>	<b>0.2386</b>	<b>0.0159</b>	<b>0.2545</b>	<b>0.0258</b>	<b>0.0159</b>	<b>0.0416</b>	<b>0.0000</b>	<b>942.2955</b>	<b>942.2955</b>	<b>0.3048</b>		<b>949.9144</b>

**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	0.0379	2.0802	0.4801	8.8300e-003	0.2614	0.0164	0.2778	0.0716	0.0157	0.0873		965.4064	965.4064	0.0387	0.1531	1,012.0005
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0139	5.8700e-003	0.1110	3.1000e-004	0.0380	1.7000e-004	0.0382	0.0101	1.6000e-004	0.0103		33.0315	33.0315	7.3000e-004	7.2000e-004	33.2632
<b>Total</b>	<b>0.0519</b>	<b>2.0861</b>	<b>0.5911</b>	<b>9.1400e-003</b>	<b>0.2994</b>	<b>0.0166</b>	<b>0.3160</b>	<b>0.0817</b>	<b>0.0159</b>	<b>0.0975</b>		<b>998.4379</b>	<b>998.4379</b>	<b>0.0394</b>	<b>0.1538</b>	<b>1,045.2637</b>



Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.8350	8.7341	5.3948	0.0141		0.3484	0.3484		0.3205	0.3205		1,364.6987	1,364.6987	0.4414		1,375.7329
<b>Total</b>	<b>0.8350</b>	<b>8.7341</b>	<b>5.3948</b>	<b>0.0141</b>	<b>5.3119</b>	<b>0.3484</b>	<b>5.6603</b>	<b>2.5686</b>	<b>0.3205</b>	<b>2.8891</b>		<b>1,364.6987</b>	<b>1,364.6987</b>	<b>0.4414</b>		<b>1,375.7329</b>

**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	0.0379	2.0802	0.4801	8.8300e-003	0.2614	0.0164	0.2778	0.0716	0.0157	0.0873		965.4064	965.4064	0.0387	0.1531	1,012.0005
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	9.3900e-003	0.1777	5.0000e-004	0.0609	2.7000e-004	0.0611	0.0161	2.5000e-004	0.0164		52.8504	52.8504	1.1600e-003	1.1500e-003	53.2210
<b>Total</b>	<b>0.0602</b>	<b>2.0896</b>	<b>0.6578</b>	<b>9.3300e-003</b>	<b>0.3223</b>	<b>0.0167</b>	<b>0.3390</b>	<b>0.0877</b>	<b>0.0160</b>	<b>0.1037</b>		<b>1,018.2568</b>	<b>1,018.2568</b>	<b>0.0399</b>	<b>0.1543</b>	<b>1,065.2216</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2026**

**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					2.3904	0.0000	2.3904	1.1559	0.0000	1.1559			0.0000			0.0000
Off-Road	0.1725	0.7475	7.1557	0.0141		0.0230	0.0230		0.0230	0.0230	0.0000	1,364.6987	1,364.6987	0.4414		1,375.7329
<b>Total</b>	<b>0.1725</b>	<b>0.7475</b>	<b>7.1557</b>	<b>0.0141</b>	<b>2.3904</b>	<b>0.0230</b>	<b>2.4134</b>	<b>1.1559</b>	<b>0.0230</b>	<b>1.1789</b>	<b>0.0000</b>	<b>1,364.6987</b>	<b>1,364.6987</b>	<b>0.4414</b>		<b>1,375.7329</b>

**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	0.0379	2.0802	0.4801	8.8300e-003	0.2614	0.0164	0.2778	0.0716	0.0157	0.0873		965.4064	965.4064	0.0387	0.1531	1,012.0005
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	9.3900e-003	0.1777	5.0000e-004	0.0609	2.7000e-004	0.0611	0.0161	2.5000e-004	0.0164		52.8504	52.8504	1.1600e-003	1.1500e-003	53.2210
<b>Total</b>	<b>0.0602</b>	<b>2.0896</b>	<b>0.6578</b>	<b>9.3300e-003</b>	<b>0.3223</b>	<b>0.0167</b>	<b>0.3390</b>	<b>0.0877</b>	<b>0.0160</b>	<b>0.1037</b>		<b>1,018.2568</b>	<b>1,018.2568</b>	<b>0.0399</b>	<b>0.1543</b>	<b>1,065.2216</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.571 1	1,105.571 1	0.3576		1,114.510 2
<b>Total</b>	<b>0.5510</b>	<b>5.4820</b>	<b>7.0282</b>	<b>0.0114</b>		<b>0.2413</b>	<b>0.2413</b>		<b>0.2220</b>	<b>0.2220</b>		<b>1,105.571 1</b>	<b>1,105.571 1</b>	<b>0.3576</b>		<b>1,114.510 2</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3800e-003	0.0871	0.0267	3.6000e-004	0.0121	4.9000e-004	0.0125	3.4700e-003	4.7000e-004	3.9300e-003		38.4930	38.4930	9.4000e-004	5.6800e-003	40.2086
Worker	0.0167	7.0400e-003	0.1332	3.8000e-004	0.0456	2.0000e-004	0.0459	0.0121	1.9000e-004	0.0123		39.6378	39.6378	8.7000e-004	8.6000e-004	39.9158
<b>Total</b>	<b>0.0191</b>	<b>0.0942</b>	<b>0.1600</b>	<b>7.4000e-004</b>	<b>0.0577</b>	<b>6.9000e-004</b>	<b>0.0584</b>	<b>0.0156</b>	<b>6.6000e-004</b>	<b>0.0162</b>		<b>78.1308</b>	<b>78.1308</b>	<b>1.8100e-003</b>	<b>6.5400e-003</b>	<b>80.1243</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,105.571 1	1,105.571 1	0.3576		1,114.510 2
<b>Total</b>	<b>0.1397</b>	<b>0.6052</b>	<b>7.7261</b>	<b>0.0114</b>		<b>0.0186</b>	<b>0.0186</b>		<b>0.0186</b>	<b>0.0186</b>	<b>0.0000</b>	<b>1,105.571 1</b>	<b>1,105.571 1</b>	<b>0.3576</b>		<b>1,114.510 2</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3800e-003	0.0871	0.0267	3.6000e-004	0.0121	4.9000e-004	0.0125	3.4700e-003	4.7000e-004	3.9300e-003		38.4930	38.4930	9.4000e-004	5.6800e-003	40.2086
Worker	0.0167	7.0400e-003	0.1332	3.8000e-004	0.0456	2.0000e-004	0.0459	0.0121	1.9000e-004	0.0123		39.6378	39.6378	8.7000e-004	8.6000e-004	39.9158
<b>Total</b>	<b>0.0191</b>	<b>0.0942</b>	<b>0.1600</b>	<b>7.4000e-004</b>	<b>0.0577</b>	<b>6.9000e-004</b>	<b>0.0584</b>	<b>0.0156</b>	<b>6.6000e-004</b>	<b>0.0162</b>		<b>78.1308</b>	<b>78.1308</b>	<b>1.8100e-003</b>	<b>6.5400e-003</b>	<b>80.1243</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.5638	4.9206	7.0257	0.0113		0.2186	0.2186		0.2046	0.2046		1,036.271 1	1,036.271 1	0.3019		1,043.817 9
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5638</b>	<b>4.9206</b>	<b>7.0257</b>	<b>0.0113</b>		<b>0.2186</b>	<b>0.2186</b>		<b>0.2046</b>	<b>0.2046</b>		<b>1,036.271 1</b>	<b>1,036.271 1</b>	<b>0.3019</b>		<b>1,043.817 9</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0501	0.0211	0.3997	1.1300e-003	0.1369	6.1000e-004	0.1375	0.0363	5.6000e-004	0.0369		118.9133	118.9133	2.6200e-003	2.5800e-003	119.7473
<b>Total</b>	<b>0.0501</b>	<b>0.0211</b>	<b>0.3997</b>	<b>1.1300e-003</b>	<b>0.1369</b>	<b>6.1000e-004</b>	<b>0.1375</b>	<b>0.0363</b>	<b>5.6000e-004</b>	<b>0.0369</b>		<b>118.9133</b>	<b>118.9133</b>	<b>2.6200e-003</b>	<b>2.5800e-003</b>	<b>119.7473</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1119	0.4851	6.9028	0.0113		0.0149	0.0149		0.0149	0.0149	0.0000	1,036.271 1	1,036.271 1	0.3019		1,043.817 9
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1119</b>	<b>0.4851</b>	<b>6.9028</b>	<b>0.0113</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0149</b>	<b>0.0149</b>	<b>0.0000</b>	<b>1,036.271 1</b>	<b>1,036.271 1</b>	<b>0.3019</b>		<b>1,043.817 9</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0501	0.0211	0.3997	1.1300e-003	0.1369	6.1000e-004	0.1375	0.0363	5.6000e-004	0.0369		118.9133	118.9133	2.6200e-003	2.5800e-003	119.7473
<b>Total</b>	<b>0.0501</b>	<b>0.0211</b>	<b>0.3997</b>	<b>1.1300e-003</b>	<b>0.1369</b>	<b>6.1000e-004</b>	<b>0.1375</b>	<b>0.0363</b>	<b>5.6000e-004</b>	<b>0.0369</b>		<b>118.9133</b>	<b>118.9133</b>	<b>2.6200e-003</b>	<b>2.5800e-003</b>	<b>119.7473</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	46.3500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>46.5209</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7900e-003	1.1700e-003	0.0222	6.0000e-005	7.6100e-003	3.0000e-005	7.6400e-003	2.0200e-003	3.0000e-005	2.0500e-003		6.6063	6.6063	1.5000e-004	1.4000e-004	6.6526
<b>Total</b>	<b>2.7900e-003</b>	<b>1.1700e-003</b>	<b>0.0222</b>	<b>6.0000e-005</b>	<b>7.6100e-003</b>	<b>3.0000e-005</b>	<b>7.6400e-003</b>	<b>2.0200e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>		<b>6.6063</b>	<b>6.6063</b>	<b>1.5000e-004</b>	<b>1.4000e-004</b>	<b>6.6526</b>

Innovation Park CNU Phase 2D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2026**

**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	46.3500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>46.3797</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7900e-003	1.1700e-003	0.0222	6.0000e-005	7.6100e-003	3.0000e-005	7.6400e-003	2.0200e-003	3.0000e-005	2.0500e-003		6.6063	6.6063	1.5000e-004	1.4000e-004	6.6526
<b>Total</b>	<b>2.7900e-003</b>	<b>1.1700e-003</b>	<b>0.0222</b>	<b>6.0000e-005</b>	<b>7.6100e-003</b>	<b>3.0000e-005</b>	<b>7.6400e-003</b>	<b>2.0200e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>		<b>6.6063</b>	<b>6.6063</b>	<b>1.5000e-004</b>	<b>1.4000e-004</b>	<b>6.6526</b>



Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2E**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	166.80	1000sqft	3.83	166,800.00	0
Enclosed Parking Structure	83.00	Space	0.75	33,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2028
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - pharm bldg 2  
 Land Use - Pharm BLDG 2  
 Construction Phase - Schedule adjusted  
 Trips and VMT - 15 truck/day  
 Grading -  
 Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMP

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	NumDays	8.00	11.00
tblConstructionPhase	NumDays	230.00	312.00

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	18.00	24.00
tblConstructionPhase	NumDays	18.00	24.00
tblTripsAndVMT	HaulingTripNumber	0.00	360.00
tblTripsAndVMT	HaulingTripNumber	0.00	90.00
tblTripsAndVMT	HaulingTripNumber	0.00	165.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	3.1808	31.3089	33.2615	0.0761	20.0553	1.1777	21.1587	10.2103	1.0952	11.2260	0.0000	7,524.697 4	7,524.697 4	1.5942	0.2527	7,639.839 9
2028	65.0144	13.9232	17.8531	0.0366	0.7084	0.5373	1.2457	0.1924	0.5055	0.6979	0.0000	3,588.880 5	3,588.880 5	0.6240	0.0988	3,633.924 0
<b>Maximum</b>	<b>65.0144</b>	<b>31.3089</b>	<b>33.2615</b>	<b>0.0761</b>	<b>20.0553</b>	<b>1.1777</b>	<b>21.1587</b>	<b>10.2103</b>	<b>1.0952</b>	<b>11.2260</b>	<b>0.0000</b>	<b>7,524.697 4</b>	<b>7,524.697 4</b>	<b>1.5942</b>	<b>0.2527</b>	<b>7,639.839 9</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					
2027	0.9817	7.3328	37.8496	0.0761	9.2439	0.1158	9.3226	4.6540	0.1145	4.7319	0.0000	7,524.697 3	7,524.697 3	1.5942	0.2527	7,639.839 9
2028	64.8733	3.6882	19.2287	0.0366	0.7084	0.0505	0.7589	0.1924	0.0500	0.2424	0.0000	3,588.880 5	3,588.880 5	0.6240	0.0988	3,633.924 0
<b>Maximum</b>	<b>64.8733</b>	<b>7.3328</b>	<b>37.8496</b>	<b>0.0761</b>	<b>9.2439</b>	<b>0.1158</b>	<b>9.3226</b>	<b>4.6540</b>	<b>0.1145</b>	<b>4.7319</b>	<b>0.0000</b>	<b>7,524.697 3</b>	<b>7,524.697 3</b>	<b>1.5942</b>	<b>0.2527</b>	<b>7,639.839 9</b>

## Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.43	75.63	-11.67	0.00	52.07	90.31	55.00	53.41	89.72	58.28	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.0098	2.3000e-004	0.0254	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0547	0.0547	1.4000e-004		0.0582
Energy	0.3299	2.9991	2.5192	0.0180		0.2279	0.2279		0.2279	0.2279		3,598.9015	3,598.9015	0.0690	0.0660	3,620.2880
Mobile	4.9458	4.4125	38.7982	0.0823	9.2746	0.0574	9.3320	2.4717	0.0536	2.5253		8,772.5990	8,772.5990	0.5171	0.3758	8,897.5075
<b>Total</b>	<b>9.2854</b>	<b>7.4118</b>	<b>41.3428</b>	<b>0.1003</b>	<b>9.2746</b>	<b>0.2854</b>	<b>9.5600</b>	<b>2.4717</b>	<b>0.2816</b>	<b>2.7533</b>		<b>12,371.5552</b>	<b>12,371.5552</b>	<b>0.5862</b>	<b>0.4418</b>	<b>12,517.8537</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	4.0098	2.3000e-004	0.0254	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0547	0.0547	1.4000e-004		0.0582
Energy	0.3299	2.9991	2.5192	0.0180		0.2279	0.2279		0.2279	0.2279		3,598.9015	3,598.9015	0.0690	0.0660	3,620.2880
Mobile	4.9458	4.4125	38.7982	0.0823	9.2746	0.0574	9.3320	2.4717	0.0536	2.5253		8,772.5990	8,772.5990	0.5171	0.3758	8,897.5075
<b>Total</b>	<b>9.2854</b>	<b>7.4118</b>	<b>41.3428</b>	<b>0.1003</b>	<b>9.2746</b>	<b>0.2854</b>	<b>9.5600</b>	<b>2.4717</b>	<b>0.2816</b>	<b>2.7533</b>		<b>12,371.5552</b>	<b>12,371.5552</b>	<b>0.5862</b>	<b>0.4418</b>	<b>12,517.8537</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/18/2027	3/23/2027	5	24	
2	Site Preparation	Site Preparation	3/24/2027	3/31/2027	5	6	
3	Grading	Grading	4/1/2027	4/15/2027	5	11	
4	Building Construction	Building Construction	4/15/2027	6/23/2028	5	312	
5	Paving	Paving	6/26/2028	7/27/2028	5	24	
6	Architectural Coating	Architectural Coating	7/28/2028	8/31/2028	5	24	

**Acres of Grading (Site Preparation Phase): 9**

**Acres of Grading (Grading Phase): 11**

**Acres of Paving: 0.75**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 250,200; Non-Residential Outdoor: 83,400; Striped Parking Area: 1,992 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Grading	Excavators	1	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	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	360.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	90.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	165.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	67.00	33.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment



Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Water Exposed Area

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0395	0.0161	0.3151	9.2000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		96.8581	96.8581	1.9900e-003	2.0400e-003	97.5157
<b>Total</b>	<b>0.0765</b>	<b>2.0425</b>	<b>0.7955</b>	<b>9.5500e-003</b>	<b>0.3754</b>	<b>0.0165</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1176</b>		<b>1,040.3921</b>	<b>1,040.3921</b>	<b>0.0398</b>	<b>0.1517</b>	<b>1,086.5894</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0395	0.0161	0.3151	9.2000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		96.8581	96.8581	1.9900e-003	2.0400e-003	97.5157
<b>Total</b>	<b>0.0765</b>	<b>2.0425</b>	<b>0.7955</b>	<b>9.5500e-003</b>	<b>0.3754</b>	<b>0.0165</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1176</b>		<b>1,040.3921</b>	<b>1,040.3921</b>	<b>0.0398</b>	<b>0.1517</b>	<b>1,086.5894</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0473	0.0193	0.3782	1.1000e-003	0.1369	5.8000e-004	0.1375	0.0363	5.3000e-004	0.0369		116.2297	116.2297	2.3900e-003	2.4500e-003	117.0188
<b>Total</b>	<b>0.0844</b>	<b>2.0458</b>	<b>0.8586</b>	<b>9.7300e-003</b>	<b>0.3983</b>	<b>0.0166</b>	<b>0.4149</b>	<b>0.1079</b>	<b>0.0159</b>	<b>0.1237</b>		<b>1,059.7638</b>	<b>1,059.7638</b>	<b>0.0402</b>	<b>0.1521</b>	<b>1,106.0925</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2027**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0473	0.0193	0.3782	1.1000e-003	0.1369	5.8000e-004	0.1375	0.0363	5.3000e-004	0.0369		116.2297	116.2297	2.3900e-003	2.4500e-003	117.0188
<b>Total</b>	<b>0.0844</b>	<b>2.0458</b>	<b>0.8586</b>	<b>9.7300e-003</b>	<b>0.3983</b>	<b>0.0166</b>	<b>0.4149</b>	<b>0.1079</b>	<b>0.0159</b>	<b>0.1237</b>		<b>1,059.7638</b>	<b>1,059.7638</b>	<b>0.0402</b>	<b>0.1521</b>	<b>1,106.0925</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>1.5227</b>	<b>15.3148</b>	<b>14.5402</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.6236</b>	<b>7.7062</b>	<b>3.4247</b>	<b>0.5737</b>	<b>3.9984</b>		<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0395	0.0161	0.3151	9.2000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		96.8581	96.8581	1.9900e-003	2.0400e-003	97.5157
<b>Total</b>	<b>0.0765</b>	<b>2.0425</b>	<b>0.7955</b>	<b>9.5500e-003</b>	<b>0.3754</b>	<b>0.0165</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1176</b>		<b>1,040.392 1</b>	<b>1,040.392 1</b>	<b>0.0398</b>	<b>0.1517</b>	<b>1,086.589 4</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2027**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0371	2.0264	0.4804	8.6300e-003	0.2613	0.0160	0.2774	0.0715	0.0154	0.0869		943.5340	943.5340	0.0378	0.1497	989.0737
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0395	0.0161	0.3151	9.2000e-004	0.1141	4.8000e-004	0.1146	0.0303	4.4000e-004	0.0307		96.8581	96.8581	1.9900e-003	2.0400e-003	97.5157
<b>Total</b>	<b>0.0765</b>	<b>2.0425</b>	<b>0.7955</b>	<b>9.5500e-003</b>	<b>0.3754</b>	<b>0.0165</b>	<b>0.3920</b>	<b>0.1018</b>	<b>0.0158</b>	<b>0.1176</b>		<b>1,040.392 1</b>	<b>1,040.392 1</b>	<b>0.0398</b>	<b>0.1517</b>	<b>1,086.589 4</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0380	1.4100	0.4335	5.7900e-003	0.1987	7.8500e-003	0.2066	0.0572	7.5100e-003	0.0647		621.4928	621.4928	0.0151	0.0919	649.2418
Worker	0.1762	0.0719	1.4076	4.0900e-003	0.5097	2.1600e-003	0.5118	0.1352	1.9800e-003	0.1372		432.6329	432.6329	8.9100e-003	9.1100e-003	435.5701
<b>Total</b>	<b>0.2142</b>	<b>1.4819</b>	<b>1.8412</b>	<b>9.8800e-003</b>	<b>0.7084</b>	<b>0.0100</b>	<b>0.7184</b>	<b>0.1924</b>	<b>9.4900e-003</b>	<b>0.2019</b>		<b>1,054.125 7</b>	<b>1,054.125 7</b>	<b>0.0240</b>	<b>0.1010</b>	<b>1,084.812 0</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0380	1.4100	0.4335	5.7900e-003	0.1987	7.8500e-003	0.2066	0.0572	7.5100e-003	0.0647		621.4928	621.4928	0.0151	0.0919	649.2418
Worker	0.1762	0.0719	1.4076	4.0900e-003	0.5097	2.1600e-003	0.5118	0.1352	1.9800e-003	0.1372		432.6329	432.6329	8.9100e-003	9.1100e-003	435.5701
<b>Total</b>	<b>0.2142</b>	<b>1.4819</b>	<b>1.8412</b>	<b>9.8800e-003</b>	<b>0.7084</b>	<b>0.0100</b>	<b>0.7184</b>	<b>0.1924</b>	<b>9.4900e-003</b>	<b>0.2019</b>		<b>1,054.125 7</b>	<b>1,054.125 7</b>	<b>0.0240</b>	<b>0.1010</b>	<b>1,084.812 0</b>



Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0369	1.3872	0.4275	5.6700e-003	0.1987	7.6900e-003	0.2064	0.0572	7.3600e-003	0.0645		608.7085	608.7085	0.0148	0.0901	635.9306
Worker	0.1667	0.0663	1.3409	3.9700e-003	0.5097	2.0200e-003	0.5117	0.1352	1.8600e-003	0.1371		423.6976	423.6976	8.1900e-003	8.7000e-003	426.4953
<b>Total</b>	<b>0.2036</b>	<b>1.4535</b>	<b>1.7684</b>	<b>9.6400e-003</b>	<b>0.7084</b>	<b>9.7100e-003</b>	<b>0.7181</b>	<b>0.1924</b>	<b>9.2200e-003</b>	<b>0.2016</b>		<b>1,032.406 1</b>	<b>1,032.406 1</b>	<b>0.0230</b>	<b>0.0988</b>	<b>1,062.425 9</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0369	1.3872	0.4275	5.6700e-003	0.1987	7.6900e-003	0.2064	0.0572	7.3600e-003	0.0645		608.7085	608.7085	0.0148	0.0901	635.9306
Worker	0.1667	0.0663	1.3409	3.9700e-003	0.5097	2.0200e-003	0.5117	0.1352	1.8600e-003	0.1371		423.6976	423.6976	8.1900e-003	8.7000e-003	426.4953
<b>Total</b>	<b>0.2036</b>	<b>1.4535</b>	<b>1.7684</b>	<b>9.6400e-003</b>	<b>0.7084</b>	<b>9.7100e-003</b>	<b>0.7181</b>	<b>0.1924</b>	<b>9.2200e-003</b>	<b>0.2016</b>		<b>1,032.406 1</b>	<b>1,032.406 1</b>	<b>0.0230</b>	<b>0.0988</b>	<b>1,062.425 9</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8197</b>	<b>7.5321</b>	<b>12.1778</b>	<b>0.0189</b>		<b>0.3524</b>	<b>0.3524</b>		<b>0.3259</b>	<b>0.3259</b>		<b>1,805.3926</b>	<b>1,805.3926</b>	<b>0.5673</b>		<b>1,819.5741</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0198	0.4003	1.1900e-003	0.1521	6.0000e-004	0.1527	0.0404	5.6000e-004	0.0409		126.4769	126.4769	2.4500e-003	2.6000e-003	127.3120
<b>Total</b>	<b>0.0498</b>	<b>0.0198</b>	<b>0.4003</b>	<b>1.1900e-003</b>	<b>0.1521</b>	<b>6.0000e-004</b>	<b>0.1527</b>	<b>0.0404</b>	<b>5.6000e-004</b>	<b>0.0409</b>		<b>126.4769</b>	<b>126.4769</b>	<b>2.4500e-003</b>	<b>2.6000e-003</b>	<b>127.3120</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2194</b>	<b>0.9509</b>	<b>13.5323</b>	<b>0.0189</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0293</b>	<b>0.0293</b>	<b>0.0000</b>	<b>1,805.3926</b>	<b>1,805.3926</b>	<b>0.5673</b>		<b>1,819.5741</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0198	0.4003	1.1900e-003	0.1521	6.0000e-004	0.1527	0.0404	5.6000e-004	0.0409		126.4769	126.4769	2.4500e-003	2.6000e-003	127.3120
<b>Total</b>	<b>0.0498</b>	<b>0.0198</b>	<b>0.4003</b>	<b>1.1900e-003</b>	<b>0.1521</b>	<b>6.0000e-004</b>	<b>0.1527</b>	<b>0.0404</b>	<b>5.6000e-004</b>	<b>0.0409</b>		<b>126.4769</b>	<b>126.4769</b>	<b>2.4500e-003</b>	<b>2.6000e-003</b>	<b>127.3120</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Archit. Coating	64.8112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>64.9821</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0323	0.0129	0.2602	7.7000e-004	0.0989	3.9000e-004	0.0993	0.0262	3.6000e-004	0.0266		82.2100	82.2100	1.5900e-003	1.6900e-003	82.7528
<b>Total</b>	<b>0.0323</b>	<b>0.0129</b>	<b>0.2602</b>	<b>7.7000e-004</b>	<b>0.0989</b>	<b>3.9000e-004</b>	<b>0.0993</b>	<b>0.0262</b>	<b>3.6000e-004</b>	<b>0.0266</b>		<b>82.2100</b>	<b>82.2100</b>	<b>1.5900e-003</b>	<b>1.6900e-003</b>	<b>82.7528</b>

Innovation Park CNU Phase 2E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2028**

**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	64.8112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>64.8409</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0323	0.0129	0.2602	7.7000e-004	0.0989	3.9000e-004	0.0993	0.0262	3.6000e-004	0.0266		82.2100	82.2100	1.5900e-003	1.6900e-003	82.7528
<b>Total</b>	<b>0.0323</b>	<b>0.0129</b>	<b>0.2602</b>	<b>7.7000e-004</b>	<b>0.0989</b>	<b>3.9000e-004</b>	<b>0.0993</b>	<b>0.0262</b>	<b>3.6000e-004</b>	<b>0.0266</b>		<b>82.2100</b>	<b>82.2100</b>	<b>1.5900e-003</b>	<b>1.6900e-003</b>	<b>82.7528</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 2F  
Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4yr)	2,500.00	Student	10.55	216,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2029
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - University Bldg 2  
 Land Use - University Building 2  
 Construction Phase - Schedule adjusted  
 Trips and VMT - 10 truck/day for demo, site prep, grading  
 Grading -  
 Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMP

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	10.00	7.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	300.00	318.00
tblConstructionPhase	NumDays	20.00	21.00



Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	20.00	21.00
tblLandUse	LandUseSquareFeet	459,493.67	216,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	130.00
tblTripsAndVMT	HaulingTripNumber	0.00	70.00
tblTripsAndVMT	HaulingTripNumber	0.00	210.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	4.6094	43.3805	45.4276	0.1075	19.9681	1.6810	21.0659	10.1865	1.5581	11.1968	0.0000	10,558.2207	10,558.2207	2.5995	0.2124	10,686.5116
2029	95.5617	14.0021	18.2757	0.0381	0.9030	0.5381	1.4411	0.2443	0.5063	0.7505	0.0000	3,753.9657	3,753.9657	0.7154	0.1052	3,800.9744
<b>Maximum</b>	<b>95.5617</b>	<b>43.3805</b>	<b>45.4276</b>	<b>0.1075</b>	<b>19.9681</b>	<b>1.6810</b>	<b>21.0659</b>	<b>10.1865</b>	<b>1.5581</b>	<b>11.1968</b>	<b>0.0000</b>	<b>10,558.2207</b>	<b>10,558.2207</b>	<b>2.5995</b>	<b>0.2124</b>	<b>10,686.5116</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					
2028	1.4301	8.5027	53.4712	0.1075	9.1568	0.1648	9.2299	4.6301	0.1637	4.7027	0.0000	10,558.2207	10,558.2207	2.5995	0.2124	10,686.5116
2029	95.4206	3.7671	19.6513	0.0381	0.9030	0.0514	0.9543	0.2443	0.0508	0.2951	0.0000	3,753.9657	3,753.9657	0.7154	0.1052	3,800.9744
<b>Maximum</b>	<b>95.4206</b>	<b>8.5027</b>	<b>53.4712</b>	<b>0.1075</b>	<b>9.1568</b>	<b>0.1648</b>	<b>9.2299</b>	<b>4.6301</b>	<b>0.1637</b>	<b>4.7027</b>	<b>0.0000</b>	<b>10,558.2207</b>	<b>10,558.2207</b>	<b>2.5995</b>	<b>0.2124</b>	<b>10,686.5116</b>

## Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.31	78.62	-14.79	0.00	51.80	90.26	54.75	53.27	89.61	58.17	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.1944	2.3100e-003	0.2546	2.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004		0.5471	0.5471	1.4200e-003		0.5827
Energy	0.1658	1.5073	1.2661	9.0400e-003		0.1146	0.1146		0.1146	0.1146		1,808.7607	1,808.7607	0.0347	0.0332	1,819.5092
Mobile	9.4576	7.4346	64.5258	0.1313	15.0476	0.0907	15.1383	4.0098	0.0847	4.0945		13,400.4677	13,400.4677	0.8959	0.6416	13,614.0469
<b>Total</b>	<b>14.8178</b>	<b>8.9443</b>	<b>66.0465</b>	<b>0.1403</b>	<b>15.0476</b>	<b>0.2062</b>	<b>15.2538</b>	<b>4.0098</b>	<b>0.2001</b>	<b>4.2099</b>		<b>15,209.7756</b>	<b>15,209.7756</b>	<b>0.9319</b>	<b>0.6747</b>	<b>15,434.1389</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	5.1944	2.3100e-003	0.2546	2.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004		0.5471	0.5471	1.4200e-003		0.5827
Energy	0.1658	1.5073	1.2661	9.0400e-003		0.1146	0.1146		0.1146	0.1146		1,808.7607	1,808.7607	0.0347	0.0332	1,819.5092
Mobile	9.4576	7.4346	64.5258	0.1313	15.0476	0.0907	15.1383	4.0098	0.0847	4.0945		13,400.4677	13,400.4677	0.8959	0.6416	13,614.0469
<b>Total</b>	<b>14.8178</b>	<b>8.9443</b>	<b>66.0465</b>	<b>0.1403</b>	<b>15.0476</b>	<b>0.2062</b>	<b>15.2538</b>	<b>4.0098</b>	<b>0.2001</b>	<b>4.2099</b>		<b>15,209.7756</b>	<b>15,209.7756</b>	<b>0.9319</b>	<b>0.6747</b>	<b>15,434.1389</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/18/2028	3/7/2028	5	13	
2	Site Preparation	Site Preparation	3/8/2028	3/16/2028	5	7	
3	Grading	Grading	3/17/2028	4/14/2028	5	20	
4	Building Construction	Building Construction	4/14/2028	7/3/2029	5	318	
5	Paving	Paving	7/5/2029	8/2/2029	5	21	
6	Architectural Coating	Architectural Coating	8/3/2029	8/31/2029	5	21	

**Acres of Grading (Site Preparation Phase): 10.5**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 324,000; Non-Residential Outdoor: 108,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	130.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	70.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	210.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	91.00	35.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0242	1.3208	0.3208	5.6300e-003	0.1742	0.0105	0.1847	0.0477	0.0100	0.0577		615.1602	615.1602	0.0248	0.0976	644.8557
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0373	0.0149	0.3002	8.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		94.8577	94.8577	1.8300e-003	1.9500e-003	95.4840
<b>Total</b>	<b>0.0615</b>	<b>1.3356</b>	<b>0.6211</b>	<b>6.5200e-003</b>	<b>0.2883</b>	<b>0.0109</b>	<b>0.2992</b>	<b>0.0780</b>	<b>0.0104</b>	<b>0.0884</b>		<b>710.0179</b>	<b>710.0179</b>	<b>0.0266</b>	<b>0.0995</b>	<b>740.3397</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0242	1.3208	0.3208	5.6300e-003	0.1742	0.0105	0.1847	0.0477	0.0100	0.0577		615.1602	615.1602	0.0248	0.0976	644.8557
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0373	0.0149	0.3002	8.9000e-004	0.1141	4.5000e-004	0.1146	0.0303	4.2000e-004	0.0307		94.8577	94.8577	1.8300e-003	1.9500e-003	95.4840
<b>Total</b>	<b>0.0615</b>	<b>1.3356</b>	<b>0.6211</b>	<b>6.5200e-003</b>	<b>0.2883</b>	<b>0.0109</b>	<b>0.2992</b>	<b>0.0780</b>	<b>0.0104</b>	<b>0.0884</b>		<b>710.0179</b>	<b>710.0179</b>	<b>0.0266</b>	<b>0.0995</b>	<b>740.3397</b>



Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0242	1.3208	0.3208	5.6300e-003	0.1742	0.0105	0.1847	0.0477	0.0100	0.0577		615.1602	615.1602	0.0248	0.0976	644.8557
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0448	0.0178	0.3603	1.0700e-003	0.1369	5.4000e-004	0.1375	0.0363	5.0000e-004	0.0368		113.8292	113.8292	2.2000e-003	2.3400e-003	114.5808
<b>Total</b>	<b>0.0690</b>	<b>1.3386</b>	<b>0.6811</b>	<b>6.7000e-003</b>	<b>0.3111</b>	<b>0.0110</b>	<b>0.3221</b>	<b>0.0840</b>	<b>0.0105</b>	<b>0.0945</b>		<b>728.9894</b>	<b>728.9894</b>	<b>0.0270</b>	<b>0.0999</b>	<b>759.4365</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2028**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0242	1.3208	0.3208	5.6300e-003	0.1742	0.0105	0.1847	0.0477	0.0100	0.0577		615.1602	615.1602	0.0248	0.0976	644.8557
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0448	0.0178	0.3603	1.0700e-003	0.1369	5.4000e-004	0.1375	0.0363	5.0000e-004	0.0368		113.8292	113.8292	2.2000e-003	2.3400e-003	114.5808
<b>Total</b>	<b>0.0690</b>	<b>1.3386</b>	<b>0.6811</b>	<b>6.7000e-003</b>	<b>0.3111</b>	<b>0.0110</b>	<b>0.3221</b>	<b>0.0840</b>	<b>0.0105</b>	<b>0.0945</b>		<b>728.9894</b>	<b>728.9894</b>	<b>0.0270</b>	<b>0.0999</b>	<b>759.4365</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**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	0.0254	1.3868	0.3369	5.9100e-003	0.1829	0.0110	0.1939	0.0501	0.0105	0.0606		645.9182	645.9182	0.0260	0.1025	677.0984
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0198	0.4003	1.1900e-003	0.1521	6.0000e-004	0.1527	0.0404	5.6000e-004	0.0409		126.4769	126.4769	2.4500e-003	2.6000e-003	127.3120
<b>Total</b>	<b>0.0752</b>	<b>1.4066</b>	<b>0.7372</b>	<b>7.1000e-003</b>	<b>0.3351</b>	<b>0.0116</b>	<b>0.3466</b>	<b>0.0904</b>	<b>0.0111</b>	<b>0.1015</b>		<b>772.3951</b>	<b>772.3951</b>	<b>0.0285</b>	<b>0.1051</b>	<b>804.4105</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2028**

**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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>4.1416</b>	<b>0.1015</b>	<b>4.2432</b>	<b>1.6442</b>	<b>0.1015</b>	<b>1.7457</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**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	0.0254	1.3868	0.3369	5.9100e-003	0.1829	0.0110	0.1939	0.0501	0.0105	0.0606		645.9182	645.9182	0.0260	0.1025	677.0984
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0198	0.4003	1.1900e-003	0.1521	6.0000e-004	0.1527	0.0404	5.6000e-004	0.0409		126.4769	126.4769	2.4500e-003	2.6000e-003	127.3120
<b>Total</b>	<b>0.0752</b>	<b>1.4066</b>	<b>0.7372</b>	<b>7.1000e-003</b>	<b>0.3351</b>	<b>0.0116</b>	<b>0.3466</b>	<b>0.0904</b>	<b>0.0111</b>	<b>0.1015</b>		<b>772.3951</b>	<b>772.3951</b>	<b>0.0285</b>	<b>0.1051</b>	<b>804.4105</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0392	1.4713	0.4534	6.0100e-003	0.2108	8.1600e-003	0.2189	0.0607	7.8000e-003	0.0685		645.6000	645.6000	0.0157	0.0956	674.4719
Worker	0.2264	0.0901	1.8213	5.4000e-003	0.6922	2.7500e-003	0.6950	0.1836	2.5300e-003	0.1862		575.4698	575.4698	0.0111	0.0118	579.2698
<b>Total</b>	<b>0.2656</b>	<b>1.5613</b>	<b>2.2747</b>	<b>0.0114</b>	<b>0.9030</b>	<b>0.0109</b>	<b>0.9139</b>	<b>0.2443</b>	<b>0.0103</b>	<b>0.2546</b>		<b>1,221.069 8</b>	<b>1,221.069 8</b>	<b>0.0269</b>	<b>0.1074</b>	<b>1,253.741 6</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0392	1.4713	0.4534	6.0100e-003	0.2108	8.1600e-003	0.2189	0.0607	7.8000e-003	0.0685		645.6000	645.6000	0.0157	0.0956	674.4719
Worker	0.2264	0.0901	1.8213	5.4000e-003	0.6922	2.7500e-003	0.6950	0.1836	2.5300e-003	0.1862		575.4698	575.4698	0.0111	0.0118	579.2698
<b>Total</b>	<b>0.2656</b>	<b>1.5613</b>	<b>2.2747</b>	<b>0.0114</b>	<b>0.9030</b>	<b>0.0109</b>	<b>0.9139</b>	<b>0.2443</b>	<b>0.0103</b>	<b>0.2546</b>		<b>1,221.069 8</b>	<b>1,221.069 8</b>	<b>0.0269</b>	<b>0.1074</b>	<b>1,253.741 6</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0381	1.4488	0.4479	5.8900e-003	0.2107	7.9900e-003	0.2187	0.0607	7.6400e-003	0.0683		632.9112	632.9112	0.0154	0.0938	661.2565
Worker	0.2138	0.0837	1.7432	5.2600e-003	0.6922	2.5800e-003	0.6948	0.1836	2.3700e-003	0.1860		564.5801	564.5801	0.0103	0.0114	568.2198
<b>Total</b>	<b>0.2519</b>	<b>1.5324</b>	<b>2.1911</b>	<b>0.0112</b>	<b>0.9030</b>	<b>0.0106</b>	<b>0.9135</b>	<b>0.2443</b>	<b>0.0100</b>	<b>0.2543</b>		<b>1,197.491 4</b>	<b>1,197.491 4</b>	<b>0.0257</b>	<b>0.1052</b>	<b>1,229.476 3</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0381	1.4488	0.4479	5.8900e-003	0.2107	7.9900e-003	0.2187	0.0607	7.6400e-003	0.0683		632.9112	632.9112	0.0154	0.0938	661.2565
Worker	0.2138	0.0837	1.7432	5.2600e-003	0.6922	2.5800e-003	0.6948	0.1836	2.3700e-003	0.1860		564.5801	564.5801	0.0103	0.0114	568.2198
<b>Total</b>	<b>0.2519</b>	<b>1.5324</b>	<b>2.1911</b>	<b>0.0112</b>	<b>0.9030</b>	<b>0.0106</b>	<b>0.9135</b>	<b>0.2443</b>	<b>0.0100</b>	<b>0.2543</b>		<b>1,197.491 4</b>	<b>1,197.491 4</b>	<b>0.0257</b>	<b>0.1052</b>	<b>1,229.476 3</b>



Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0352</b>	<b>0.0138</b>	<b>0.2873</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>93.0627</b>	<b>93.0627</b>	<b>1.6900e-003</b>	<b>1.8700e-003</b>	<b>93.6626</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0352</b>	<b>0.0138</b>	<b>0.2873</b>	<b>8.7000e-004</b>	<b>0.1141</b>	<b>4.2000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.9000e-004</b>	<b>0.0307</b>		<b>93.0627</b>	<b>93.0627</b>	<b>1.6900e-003</b>	<b>1.8700e-003</b>	<b>93.6626</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	95.3486					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>95.5194</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0423	0.0166	0.3448	1.0400e-003	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		111.6752	111.6752	2.0300e-003	2.2500e-003	112.3951
<b>Total</b>	<b>0.0423</b>	<b>0.0166</b>	<b>0.3448</b>	<b>1.0400e-003</b>	<b>0.1369</b>	<b>5.1000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.7000e-004</b>	<b>0.0368</b>		<b>111.6752</b>	<b>111.6752</b>	<b>2.0300e-003</b>	<b>2.2500e-003</b>	<b>112.3951</b>

Innovation Park CNU Phase 2F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2029**

**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	95.3486					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>95.3783</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0423	0.0166	0.3448	1.0400e-003	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		111.6752	111.6752	2.0300e-003	2.2500e-003	112.3951
<b>Total</b>	<b>0.0423</b>	<b>0.0166</b>	<b>0.3448</b>	<b>1.0400e-003</b>	<b>0.1369</b>	<b>5.1000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.7000e-004</b>	<b>0.0368</b>		<b>111.6752</b>	<b>111.6752</b>	<b>2.0300e-003</b>	<b>2.2500e-003</b>	<b>112.3951</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3A**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	760.00	Space	6.84	228,000.00	0
Strip Mall	29.00	1000sqft	0.67	29,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2030
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Retail/Parking building 2

Land Use - Retail + Parking

Construction Phase - Schedule adjusted

Trips and VMT - 20 truck/ day for demo, site prep, grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	230.00	281.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	25.00
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblLandUse	LandUseSquareFeet	304,000.00	228,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	HaulingTripNumber	0.00	420.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2029	3.2651	32.2176	34.1034	0.0817	20.1423	1.1846	21.2501	10.2341	1.1018	11.2540	0.0000	8,138.328 4	8,138.328 4	1.6112	0.3186	8,273.538 2
2030	13.4668	9.7386	18.6247	0.0438	1.0516	0.3310	1.2119	0.2846	0.3310	0.4443	0.0000	4,283.446 8	4,283.446 8	0.1455	0.1233	4,323.831 0
<b>Maximum</b>	<b>13.4668</b>	<b>32.2176</b>	<b>34.1034</b>	<b>0.0817</b>	<b>20.1423</b>	<b>1.1846</b>	<b>21.2501</b>	<b>10.2341</b>	<b>1.1018</b>	<b>11.2540</b>	<b>0.0000</b>	<b>8,138.328 4</b>	<b>8,138.328 4</b>	<b>1.6112</b>	<b>0.3186</b>	<b>8,273.538 2</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					
2029	1.0660	8.2415	38.6915	0.0817	9.3309	0.1227	9.4140	4.6778	0.1211	4.7599	0.0000	8,138.328 3	8,138.328 3	1.6112	0.3186	8,273.538 2
2030	13.3657	4.0387	19.9280	0.0438	1.0516	0.0530	1.1046	0.2846	0.0523	0.3370	0.0000	4,283.446 8	4,283.446 8	0.1455	0.1233	4,323.831 0
<b>Maximum</b>	<b>13.3657</b>	<b>8.2415</b>	<b>38.6915</b>	<b>0.0817</b>	<b>9.3309</b>	<b>0.1227</b>	<b>9.4140</b>	<b>4.6778</b>	<b>0.1211</b>	<b>4.7599</b>	<b>0.0000</b>	<b>8,138.328 3</b>	<b>8,138.328 3</b>	<b>1.6112</b>	<b>0.3186</b>	<b>8,273.538 2</b>



## Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	13.75	70.73	-11.17	0.00	51.01	88.41	53.17	52.82	87.90	56.43	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7997	7.2000e-004	0.0802	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1727	0.1727	4.5000e-004		0.1838
Energy	4.6000e-003	0.0418	0.0351	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.1950	50.1950	9.6000e-004	9.2000e-004	50.4933
Mobile	2.7211	1.8297	15.6832	0.0289	3.3296	0.0205	3.3500	0.8872	0.0191	0.9063		3,111.7778	3,111.7778	0.2247	0.1584	3,164.5972
<b>Total</b>	<b>3.5254</b>	<b>1.8722</b>	<b>15.7985</b>	<b>0.0291</b>	<b>3.3296</b>	<b>0.0239</b>	<b>3.3535</b>	<b>0.8872</b>	<b>0.0225</b>	<b>0.9097</b>		<b>3,162.1455</b>	<b>3,162.1455</b>	<b>0.2261</b>	<b>0.1593</b>	<b>3,215.2743</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	0.7997	7.2000e-004	0.0802	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1727	0.1727	4.5000e-004		0.1838
Energy	4.6000e-003	0.0418	0.0351	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.1950	50.1950	9.6000e-004	9.2000e-004	50.4933
Mobile	2.7211	1.8297	15.6832	0.0289	3.3296	0.0205	3.3500	0.8872	0.0191	0.9063		3,111.7778	3,111.7778	0.2247	0.1584	3,164.5972
<b>Total</b>	<b>3.5254</b>	<b>1.8722</b>	<b>15.7985</b>	<b>0.0291</b>	<b>3.3296</b>	<b>0.0239</b>	<b>3.3535</b>	<b>0.8872</b>	<b>0.0225</b>	<b>0.9097</b>		<b>3,162.1455</b>	<b>3,162.1455</b>	<b>0.2261</b>	<b>0.1593</b>	<b>3,215.2743</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/19/2029	4/13/2029	5	20	
2	Site Preparation	Site Preparation	4/16/2029	4/27/2029	5	10	
3	Grading	Grading	4/30/2029	5/28/2029	5	21	
4	Building Construction	Building Construction	5/28/2029	6/24/2030	5	281	
5	Paving	Paving	6/25/2030	7/26/2030	5	24	
6	Architectural Coating	Architectural Coating	7/29/2030	8/30/2030	5	25	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 21**

**Acres of Paving: 6.84**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 43,500; Non-Residential Outdoor: 14,500; Striped Parking Area: 13,680 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	400.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	200.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	420.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	105.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2029**

**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	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0474	2.5843	0.6424	0.0110	0.3483	0.0205	0.3688	0.0954	0.0196	0.1149		1,204.1541	1,204.1541	0.0487	0.1910	1,262.2909
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0827</b>	<b>2.5981</b>	<b>0.9297</b>	<b>0.0119</b>	<b>0.4624</b>	<b>0.0209</b>	<b>0.4833</b>	<b>0.1256</b>	<b>0.0200</b>	<b>0.1456</b>		<b>1,297.2167</b>	<b>1,297.2167</b>	<b>0.0504</b>	<b>0.1929</b>	<b>1,355.9536</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0474	2.5843	0.6424	0.0110	0.3483	0.0205	0.3688	0.0954	0.0196	0.1149		1,204.1541	1,204.1541	0.0487	0.1910	1,262.2909
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0827</b>	<b>2.5981</b>	<b>0.9297</b>	<b>0.0119</b>	<b>0.4624</b>	<b>0.0209</b>	<b>0.4833</b>	<b>0.1256</b>	<b>0.0200</b>	<b>0.1456</b>		<b>1,297.2167</b>	<b>1,297.2167</b>	<b>0.0504</b>	<b>0.1929</b>	<b>1,355.9536</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0474	2.5843	0.6424	0.0110	0.3483	0.0205	0.3688	0.0954	0.0196	0.1149		1,204.1541	1,204.1541	0.0487	0.1910	1,262.2909
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0423	0.0166	0.3448	1.0400e-003	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		111.6752	111.6752	2.0300e-003	2.2500e-003	112.3951
<b>Total</b>	<b>0.0897</b>	<b>2.6009</b>	<b>0.9872</b>	<b>0.0121</b>	<b>0.4853</b>	<b>0.0210</b>	<b>0.5063</b>	<b>0.1317</b>	<b>0.0201</b>	<b>0.1517</b>		<b>1,315.8293</b>	<b>1,315.8293</b>	<b>0.0508</b>	<b>0.1933</b>	<b>1,374.6861</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2029**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0474	2.5843	0.6424	0.0110	0.3483	0.0205	0.3688	0.0954	0.0196	0.1149		1,204.1541	1,204.1541	0.0487	0.1910	1,262.2909
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0423	0.0166	0.3448	1.0400e-003	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		111.6752	111.6752	2.0300e-003	2.2500e-003	112.3951
<b>Total</b>	<b>0.0897</b>	<b>2.6009</b>	<b>0.9872</b>	<b>0.0121</b>	<b>0.4853</b>	<b>0.0210</b>	<b>0.5063</b>	<b>0.1317</b>	<b>0.0201</b>	<b>0.1517</b>		<b>1,315.8293</b>	<b>1,315.8293</b>	<b>0.0508</b>	<b>0.1933</b>	<b>1,374.6861</b>



Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2029**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>1.5227</b>	<b>15.3148</b>	<b>14.5402</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.6236</b>	<b>7.7062</b>	<b>3.4247</b>	<b>0.5737</b>	<b>3.9984</b>		<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0474	2.5843	0.6424	0.0110	0.3483	0.0205	0.3688	0.0954	0.0196	0.1149		1,204.154 1	1,204.154 1	0.0487	0.1910	1,262.290 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0827</b>	<b>2.5981</b>	<b>0.9297</b>	<b>0.0119</b>	<b>0.4624</b>	<b>0.0209</b>	<b>0.4833</b>	<b>0.1256</b>	<b>0.0200</b>	<b>0.1456</b>		<b>1,297.216 7</b>	<b>1,297.216 7</b>	<b>0.0504</b>	<b>0.1929</b>	<b>1,355.953 6</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2029**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0474	2.5843	0.6424	0.0110	0.3483	0.0205	0.3688	0.0954	0.0196	0.1149		1,204.154 1	1,204.154 1	0.0487	0.1910	1,262.290 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0827</b>	<b>2.5981</b>	<b>0.9297</b>	<b>0.0119</b>	<b>0.4624</b>	<b>0.0209</b>	<b>0.4833</b>	<b>0.1256</b>	<b>0.0200</b>	<b>0.1456</b>		<b>1,297.216 7</b>	<b>1,297.216 7</b>	<b>0.0504</b>	<b>0.1929</b>	<b>1,355.953 6</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0457	1.7385	0.5375	7.0700e-003	0.2529	9.5900e-003	0.2625	0.0728	9.1700e-003	0.0820		759.4935	759.4935	0.0185	0.1126	793.5078
Worker	0.2467	0.0965	2.0114	6.0700e-003	0.7987	2.9700e-003	0.8017	0.2119	2.7400e-003	0.2146		651.4386	651.4386	0.0119	0.0131	655.6383
<b>Total</b>	<b>0.2924</b>	<b>1.8351</b>	<b>2.5488</b>	<b>0.0131</b>	<b>1.0516</b>	<b>0.0126</b>	<b>1.0642</b>	<b>0.2847</b>	<b>0.0119</b>	<b>0.2966</b>		<b>1,410.932 1</b>	<b>1,410.932 1</b>	<b>0.0304</b>	<b>0.1257</b>	<b>1,449.146 1</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0457	1.7385	0.5375	7.0700e-003	0.2529	9.5900e-003	0.2625	0.0728	9.1700e-003	0.0820		759.4935	759.4935	0.0185	0.1126	793.5078
Worker	0.2467	0.0965	2.0114	6.0700e-003	0.7987	2.9700e-003	0.8017	0.2119	2.7400e-003	0.2146		651.4386	651.4386	0.0119	0.0131	655.6383
<b>Total</b>	<b>0.2924</b>	<b>1.8351</b>	<b>2.5488</b>	<b>0.0131</b>	<b>1.0516</b>	<b>0.0126</b>	<b>1.0642</b>	<b>0.2847</b>	<b>0.0119</b>	<b>0.2966</b>		<b>1,410.932 1</b>	<b>1,410.932 1</b>	<b>0.0304</b>	<b>0.1257</b>	<b>1,449.146 1</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0445	1.7137	0.5322	6.9400e-003	0.2529	9.3900e-003	0.2623	0.0728	8.9800e-003	0.0818		745.5055	745.5055	0.0182	0.1107	778.9393
Worker	0.2327	0.0903	1.9355	5.9200e-003	0.7987	2.7800e-003	0.8015	0.2119	2.5600e-003	0.2144		640.3945	640.3945	0.0110	0.0127	644.4388
<b>Total</b>	<b>0.2772</b>	<b>1.8040</b>	<b>2.4677</b>	<b>0.0129</b>	<b>1.0516</b>	<b>0.0122</b>	<b>1.0638</b>	<b>0.2846</b>	<b>0.0115</b>	<b>0.2962</b>		<b>1,385.9000</b>	<b>1,385.9000</b>	<b>0.0292</b>	<b>0.1233</b>	<b>1,423.3781</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0445	1.7137	0.5322	6.9400e-003	0.2529	9.3900e-003	0.2623	0.0728	8.9800e-003	0.0818		745.5055	745.5055	0.0182	0.1107	778.9393
Worker	0.2327	0.0903	1.9355	5.9200e-003	0.7987	2.7800e-003	0.8015	0.2119	2.5600e-003	0.2144		640.3945	640.3945	0.0110	0.0127	644.4388
<b>Total</b>	<b>0.2772</b>	<b>1.8040</b>	<b>2.4677</b>	<b>0.0129</b>	<b>1.0516</b>	<b>0.0122</b>	<b>1.0638</b>	<b>0.2846</b>	<b>0.0115</b>	<b>0.2962</b>		<b>1,385.9000</b>	<b>1,385.9000</b>	<b>0.0292</b>	<b>0.1233</b>	<b>1,423.3781</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0332</b>	<b>0.0129</b>	<b>0.2765</b>	<b>8.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>91.4849</b>	<b>91.4849</b>	<b>1.5700e-003</b>	<b>1.8100e-003</b>	<b>92.0627</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0332</b>	<b>0.0129</b>	<b>0.2765</b>	<b>8.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>91.4849</b>	<b>91.4849</b>	<b>1.5700e-003</b>	<b>1.8100e-003</b>	<b>92.0627</b>



Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	13.2895					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>13.4202</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0465	0.0181	0.3871	1.1800e-003	0.1598	5.6000e-004	0.1603	0.0424	5.1000e-004	0.0429		128.0789	128.0789	2.2000e-003	2.5300e-003	128.8878
<b>Total</b>	<b>0.0465</b>	<b>0.0181</b>	<b>0.3871</b>	<b>1.1800e-003</b>	<b>0.1598</b>	<b>5.6000e-004</b>	<b>0.1603</b>	<b>0.0424</b>	<b>5.1000e-004</b>	<b>0.0429</b>		<b>128.0789</b>	<b>128.0789</b>	<b>2.2000e-003</b>	<b>2.5300e-003</b>	<b>128.8878</b>

Innovation Park CNU Phase 3A - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	13.2895					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>13.3192</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0465	0.0181	0.3871	1.1800e-003	0.1598	5.6000e-004	0.1603	0.0424	5.1000e-004	0.0429		128.0789	128.0789	2.2000e-003	2.5300e-003	128.8878
<b>Total</b>	<b>0.0465</b>	<b>0.0181</b>	<b>0.3871</b>	<b>1.1800e-003</b>	<b>0.1598</b>	<b>5.6000e-004</b>	<b>0.1603</b>	<b>0.0424</b>	<b>5.1000e-004</b>	<b>0.0429</b>		<b>128.0789</b>	<b>128.0789</b>	<b>2.2000e-003</b>	<b>2.5300e-003</b>	<b>128.8878</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3B**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4yr)	1,000.00	Student	4.22	108,000.00	0
General Heavy Industry	54.00	1000sqft	1.24	54,000.00	0
Strip Mall	27.00	1000sqft	0.62	27,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2030
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - University BLDG 2

Land Use - University BLDG 2

Construction Phase - Schedule adjusted

Trips and VMT - 10 truck/day for demo, site prep. grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	230.00	306.00
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	20.00	27.00

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblLandUse	LandUseSquareFeet	183,797.47	108,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	HaulingTripNumber	0.00	160.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2029	3.1652	30.5305	33.1265	0.0731	19.9681	1.1717	21.0657	10.1864	1.0896	11.1966	0.0000	7,203.7579	7,203.7579	1.5804	0.1965	7,301.8088
2030	65.0540	9.2657	17.9692	0.0404	0.7724	0.3310	0.9295	0.2091	0.3310	0.3657	0.0000	3,917.4235	3,917.4235	0.1378	0.0910	3,947.9727
<b>Maximum</b>	<b>65.0540</b>	<b>30.5305</b>	<b>33.1265</b>	<b>0.0731</b>	<b>19.9681</b>	<b>1.1717</b>	<b>21.0657</b>	<b>10.1864</b>	<b>1.0896</b>	<b>11.1966</b>	<b>0.0000</b>	<b>7,203.7579</b>	<b>7,203.7579</b>	<b>1.5804</b>	<b>0.1965</b>	<b>7,301.8088</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					
2029	0.9661	6.5545	37.7146	0.0731	9.1568	0.1098	9.2296	4.6301	0.1088	4.7024	0.0000	7,203.7579	7,203.7579	1.5804	0.1965	7,301.8088
2030	64.9530	3.5658	19.2725	0.0404	0.7724	0.0498	0.8222	0.2091	0.0493	0.2584	0.0000	3,917.4235	3,917.4235	0.1378	0.0910	3,947.9727
<b>Maximum</b>	<b>64.9530</b>	<b>6.5545</b>	<b>37.7146</b>	<b>0.0731</b>	<b>9.1568</b>	<b>0.1098</b>	<b>9.2296</b>	<b>4.6301</b>	<b>0.1088</b>	<b>4.7024</b>	<b>0.0000</b>	<b>7,203.7579</b>	<b>7,203.7579</b>	<b>1.5804</b>	<b>0.1965</b>	<b>7,301.8088</b>

## Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.37	74.57	-11.53	0.00	52.13	89.38	54.30	53.45	88.87	57.09	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.5347	9.9000e-004	0.1098	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2366	0.2366	6.1000e-004		0.2518
Energy	0.1439	1.3085	1.0992	7.8500e-003		0.0995	0.0995		0.0995	0.0995		1,570.2208	1,570.2208	0.0301	0.0288	1,579.5518
Mobile	7.1248	5.4128	47.7281	0.0951	11.1381	0.0646	11.2028	2.9678	0.0603	3.0281		10,247.2540	10,247.2540	0.6611	0.4733	10,404.8106
<b>Total</b>	<b>11.8034</b>	<b>6.7223</b>	<b>48.9371</b>	<b>0.1029</b>	<b>11.1381</b>	<b>0.1645</b>	<b>11.3026</b>	<b>2.9678</b>	<b>0.1602</b>	<b>3.1279</b>		<b>11,817.7114</b>	<b>11,817.7114</b>	<b>0.6919</b>	<b>0.5020</b>	<b>11,984.6143</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	4.5347	9.9000e-004	0.1098	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2366	0.2366	6.1000e-004		0.2518
Energy	0.1439	1.3085	1.0992	7.8500e-003		0.0995	0.0995		0.0995	0.0995		1,570.2208	1,570.2208	0.0301	0.0288	1,579.5518
Mobile	7.1248	5.4128	47.7281	0.0951	11.1381	0.0646	11.2028	2.9678	0.0603	3.0281		10,247.2540	10,247.2540	0.6611	0.4733	10,404.8106
<b>Total</b>	<b>11.8034</b>	<b>6.7223</b>	<b>48.9371</b>	<b>0.1029</b>	<b>11.1381</b>	<b>0.1645</b>	<b>11.3026</b>	<b>2.9678</b>	<b>0.1602</b>	<b>3.1279</b>		<b>11,817.7114</b>	<b>11,817.7114</b>	<b>0.6919</b>	<b>0.5020</b>	<b>11,984.6143</b>



Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/19/2029	3/9/2029	5	15	
2	Site Preparation	Site Preparation	3/12/2029	3/23/2029	5	10	
3	Grading	Grading	3/27/2029	4/16/2029	5	15	
4	Building Construction	Building Construction	4/16/2029	6/17/2030	5	306	
5	Paving	Paving	6/18/2030	7/24/2030	5	27	
6	Architectural Coating	Architectural Coating	7/25/2030	8/30/2030	5	27	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 15**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 283,500; Non-Residential Outdoor: 94,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	150.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	100.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	160.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	31.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2029**

**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	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>		<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0237	1.2922	0.3212	5.5100e-003	0.1742	0.0102	0.1844	0.0477	9.8000e-003	0.0575		602.0770	602.0770	0.0244	0.0955	631.1455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0590</b>	<b>1.3059</b>	<b>0.6085</b>	<b>6.3800e-003</b>	<b>0.2883</b>	<b>0.0107</b>	<b>0.2989</b>	<b>0.0779</b>	<b>0.0102</b>	<b>0.0881</b>		<b>695.1397</b>	<b>695.1397</b>	<b>0.0261</b>	<b>0.0974</b>	<b>724.8081</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0388</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

**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	0.0237	1.2922	0.3212	5.5100e-003	0.1742	0.0102	0.1844	0.0477	9.8000e-003	0.0575		602.0770	602.0770	0.0244	0.0955	631.1455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0590</b>	<b>1.3059</b>	<b>0.6085</b>	<b>6.3800e-003</b>	<b>0.2883</b>	<b>0.0107</b>	<b>0.2989</b>	<b>0.0779</b>	<b>0.0102</b>	<b>0.0881</b>		<b>695.1397</b>	<b>695.1397</b>	<b>0.0261</b>	<b>0.0974</b>	<b>724.8081</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0237	1.2922	0.3212	5.5100e-003	0.1742	0.0102	0.1844	0.0477	9.8000e-003	0.0575		602.0770	602.0770	0.0244	0.0955	631.1455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0423	0.0166	0.3448	1.0400e-003	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		111.6752	111.6752	2.0300e-003	2.2500e-003	112.3951
<b>Total</b>	<b>0.0660</b>	<b>1.3087</b>	<b>0.6660</b>	<b>6.5500e-003</b>	<b>0.3111</b>	<b>0.0108</b>	<b>0.3219</b>	<b>0.0840</b>	<b>0.0103</b>	<b>0.0943</b>		<b>713.7522</b>	<b>713.7522</b>	<b>0.0264</b>	<b>0.0978</b>	<b>743.5406</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2029**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**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	0.0237	1.2922	0.3212	5.5100e-003	0.1742	0.0102	0.1844	0.0477	9.8000e-003	0.0575		602.0770	602.0770	0.0244	0.0955	631.1455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0423	0.0166	0.3448	1.0400e-003	0.1369	5.1000e-004	0.1374	0.0363	4.7000e-004	0.0368		111.6752	111.6752	2.0300e-003	2.2500e-003	112.3951
<b>Total</b>	<b>0.0660</b>	<b>1.3087</b>	<b>0.6660</b>	<b>6.5500e-003</b>	<b>0.3111</b>	<b>0.0108</b>	<b>0.3219</b>	<b>0.0840</b>	<b>0.0103</b>	<b>0.0943</b>		<b>713.7522</b>	<b>713.7522</b>	<b>0.0264</b>	<b>0.0978</b>	<b>743.5406</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2029**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>1.5227</b>	<b>15.3148</b>	<b>14.5402</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.6236</b>	<b>7.7062</b>	<b>3.4247</b>	<b>0.5737</b>	<b>3.9984</b>		<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0253	1.3783	0.3426	5.8700e-003	0.1858	0.0109	0.1967	0.0509	0.0105	0.0613		642.2155	642.2155	0.0260	0.1019	673.2218
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0605</b>	<b>1.3921</b>	<b>0.6299</b>	<b>6.7400e-003</b>	<b>0.2999</b>	<b>0.0113</b>	<b>0.3112</b>	<b>0.0811</b>	<b>0.0108</b>	<b>0.0920</b>		<b>735.2782</b>	<b>735.2782</b>	<b>0.0277</b>	<b>0.1037</b>	<b>766.8844</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2029**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.705 2	2,873.705 2	0.9294		2,896.940 5
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0297</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>2,873.705 2</b>	<b>2,873.705 2</b>	<b>0.9294</b>		<b>2,896.940 5</b>

**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	0.0253	1.3783	0.3426	5.8700e-003	0.1858	0.0109	0.1967	0.0509	0.0105	0.0613		642.2155	642.2155	0.0260	0.1019	673.2218
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0138	0.2873	8.7000e-004	0.1141	4.2000e-004	0.1145	0.0303	3.9000e-004	0.0307		93.0627	93.0627	1.6900e-003	1.8700e-003	93.6626
<b>Total</b>	<b>0.0605</b>	<b>1.3921</b>	<b>0.6299</b>	<b>6.7400e-003</b>	<b>0.2999</b>	<b>0.0113</b>	<b>0.3112</b>	<b>0.0811</b>	<b>0.0108</b>	<b>0.0920</b>		<b>735.2782</b>	<b>735.2782</b>	<b>0.0277</b>	<b>0.1037</b>	<b>766.8844</b>



Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0337	1.2832	0.3967	5.2200e-003	0.1867	7.0800e-003	0.1937	0.0537	6.7700e-003	0.0605		560.5785	560.5785	0.0137	0.0831	585.6843
Worker	0.1809	0.0708	1.4750	4.4500e-003	0.5857	2.1800e-003	0.5879	0.1554	2.0100e-003	0.1574		477.7217	477.7217	8.7000e-003	9.6100e-003	480.8014
<b>Total</b>	<b>0.2146</b>	<b>1.3540</b>	<b>1.8717</b>	<b>9.6700e-003</b>	<b>0.7724</b>	<b>9.2600e-003</b>	<b>0.7817</b>	<b>0.2091</b>	<b>8.7800e-003</b>	<b>0.2179</b>		<b>1,038.300 2</b>	<b>1,038.300 2</b>	<b>0.0224</b>	<b>0.0927</b>	<b>1,066.485 7</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0337	1.2832	0.3967	5.2200e-003	0.1867	7.0800e-003	0.1937	0.0537	6.7700e-003	0.0605		560.5785	560.5785	0.0137	0.0831	585.6843
Worker	0.1809	0.0708	1.4750	4.4500e-003	0.5857	2.1800e-003	0.5879	0.1554	2.0100e-003	0.1574		477.7217	477.7217	8.7000e-003	9.6100e-003	480.8014
<b>Total</b>	<b>0.2146</b>	<b>1.3540</b>	<b>1.8717</b>	<b>9.6700e-003</b>	<b>0.7724</b>	<b>9.2600e-003</b>	<b>0.7817</b>	<b>0.2091</b>	<b>8.7800e-003</b>	<b>0.2179</b>		<b>1,038.300 2</b>	<b>1,038.300 2</b>	<b>0.0224</b>	<b>0.0927</b>	<b>1,066.485 7</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0329	1.2649	0.3928	5.1200e-003	0.1867	6.9300e-003	0.1936	0.0537	6.6300e-003	0.0603		550.2540	550.2540	0.0135	0.0817	574.9314
Worker	0.1706	0.0662	1.4194	4.3400e-003	0.5857	2.0400e-003	0.5878	0.1554	1.8800e-003	0.1573		469.6227	469.6227	8.0600e-003	9.2800e-003	472.5885
<b>Total</b>	<b>0.2035</b>	<b>1.3311</b>	<b>1.8122</b>	<b>9.4600e-003</b>	<b>0.7724</b>	<b>8.9700e-003</b>	<b>0.7814</b>	<b>0.2091</b>	<b>8.5100e-003</b>	<b>0.2176</b>		<b>1,019.8767</b>	<b>1,019.8767</b>	<b>0.0215</b>	<b>0.0910</b>	<b>1,047.5199</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0329	1.2649	0.3928	5.1200e-003	0.1867	6.9300e-003	0.1936	0.0537	6.6300e-003	0.0603		550.2540	550.2540	0.0135	0.0817	574.9314
Worker	0.1706	0.0662	1.4194	4.3400e-003	0.5857	2.0400e-003	0.5878	0.1554	1.8800e-003	0.1573		469.6227	469.6227	8.0600e-003	9.2800e-003	472.5885
<b>Total</b>	<b>0.2035</b>	<b>1.3311</b>	<b>1.8122</b>	<b>9.4600e-003</b>	<b>0.7724</b>	<b>8.9700e-003</b>	<b>0.7814</b>	<b>0.2091</b>	<b>8.5100e-003</b>	<b>0.2176</b>		<b>1,019.8767</b>	<b>1,019.8767</b>	<b>0.0215</b>	<b>0.0910</b>	<b>1,047.5199</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0332</b>	<b>0.0129</b>	<b>0.2765</b>	<b>8.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>91.4849</b>	<b>91.4849</b>	<b>1.5700e-003</b>	<b>1.8100e-003</b>	<b>92.0627</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0332</b>	<b>0.0129</b>	<b>0.2765</b>	<b>8.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>91.4849</b>	<b>91.4849</b>	<b>1.5700e-003</b>	<b>1.8100e-003</b>	<b>92.0627</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	64.8900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>65.0208</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0332</b>	<b>0.0129</b>	<b>0.2765</b>	<b>8.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>91.4849</b>	<b>91.4849</b>	<b>1.5700e-003</b>	<b>1.8100e-003</b>	<b>92.0627</b>

Innovation Park CNU Phase 3B - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2030**

**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	64.8900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>64.9197</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0332</b>	<b>0.0129</b>	<b>0.2765</b>	<b>8.5000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.7000e-004</b>	<b>0.0306</b>		<b>91.4849</b>	<b>91.4849</b>	<b>1.5700e-003</b>	<b>1.8100e-003</b>	<b>92.0627</b>



Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3C**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	48.00	1000sqft	1.10	48,000.00	0
Enclosed Parking Structure	127.00	Space	1.14	48,000.00	0
Apartments Mid Rise	250.00	Dwelling Unit	6.58	114,000.00	668

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2031
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - Dorm/Facility BLDG 2 Construction ONLY

Land Use - Residential buildings 2

Construction Phase - Adjusted Scheduled

Trips and VMT - 15 trucks/year for demo, site prep, and grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	230.00	307.00
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	20.00	26.00
tblLandUse	LandUseSquareFeet	50,800.00	48,000.00
tblLandUse	LandUseSquareFeet	250,000.00	114,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	225.00
tblTripsAndVMT	HaulingTripNumber	0.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	3.5182	19.4959	35.8812	0.0953	20.0552	0.4522	20.5073	10.2103	0.4515	10.6617	0.0000	9,376.8848	9,376.8848	0.3384	0.2789	9,468.4606
2031	72.7191	9.8018	20.5314	0.0497	1.8960	0.3310	2.0587	0.5086	0.3310	0.6705	0.0000	4,927.7779	4,927.7779	0.1552	0.1342	4,971.6469
<b>Maximum</b>	<b>72.7191</b>	<b>19.4959</b>	<b>35.8812</b>	<b>0.0953</b>	<b>20.0552</b>	<b>0.4522</b>	<b>20.5073</b>	<b>10.2103</b>	<b>0.4515</b>	<b>10.6617</b>	<b>0.0000</b>	<b>9,376.8848</b>	<b>9,376.8848</b>	<b>0.3384</b>	<b>0.2789</b>	<b>9,468.4606</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					
2030	3.5182	19.4959	35.8812	0.0953	9.2438	0.4522	9.6960	4.6539	0.4515	5.1054	0.0000	9,376.8848	9,376.8848	0.3384	0.2789	9,468.4606
2031	72.7191	9.8018	20.5314	0.0497	1.8960	0.3310	2.0587	0.5086	0.3310	0.6705	0.0000	4,927.7779	4,927.7779	0.1552	0.1342	4,971.6469
<b>Maximum</b>	<b>72.7191</b>	<b>19.4959</b>	<b>35.8812</b>	<b>0.0953</b>	<b>9.2438</b>	<b>0.4522</b>	<b>9.6960</b>	<b>4.6539</b>	<b>0.4515</b>	<b>5.1054</b>	<b>0.0000</b>	<b>9,376.8848</b>	<b>9,376.8848</b>	<b>0.3384</b>	<b>0.2789</b>	<b>9,468.4606</b>

## Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	49.25	0.00	47.91	51.84	0.00	49.03	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.6171	0.2373	20.5886	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	37.1764	37.1764	0.0355	0.0000	38.0634
Energy	0.0880	0.7617	0.3935	4.8000e-003		0.0608	0.0608		0.0608	0.0608		959.5802	959.5802	0.0184	0.0176	965.2825
Mobile	4.5487	3.9367	36.1925	0.0773	9.3848	0.0492	9.4340	2.5004	0.0459	2.5463		8,380.0272	8,380.0272	0.4860	0.3534	8,497.4945
<b>Total</b>	<b>9.2538</b>	<b>4.9358</b>	<b>57.1746</b>	<b>0.0832</b>	<b>9.3848</b>	<b>0.2244</b>	<b>9.6092</b>	<b>2.5004</b>	<b>0.2211</b>	<b>2.7215</b>	<b>0.0000</b>	<b>9,376.7838</b>	<b>9,376.7838</b>	<b>0.5398</b>	<b>0.3710</b>	<b>9,500.8404</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	4.6171	0.2373	20.5886	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	37.1764	37.1764	0.0355	0.0000	38.0634
Energy	0.0880	0.7617	0.3935	4.8000e-003		0.0608	0.0608		0.0608	0.0608		959.5802	959.5802	0.0184	0.0176	965.2825
Mobile	4.5487	3.9367	36.1925	0.0773	9.3848	0.0492	9.4340	2.5004	0.0459	2.5463		8,380.0272	8,380.0272	0.4860	0.3534	8,497.4945
<b>Total</b>	<b>9.2538</b>	<b>4.9358</b>	<b>57.1746</b>	<b>0.0832</b>	<b>9.3848</b>	<b>0.2244</b>	<b>9.6092</b>	<b>2.5004</b>	<b>0.2211</b>	<b>2.7215</b>	<b>0.0000</b>	<b>9,376.7838</b>	<b>9,376.7838</b>	<b>0.5398</b>	<b>0.3710</b>	<b>9,500.8404</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/18/2030	3/8/2030	5	15	
2	Site Preparation	Site Preparation	3/11/2030	3/22/2030	5	10	
3	Grading	Grading	3/25/2030	4/15/2030	5	16	
4	Building Construction	Building Construction	4/15/2030	6/17/2031	5	307	
5	Paving	Paving	6/18/2031	7/24/2031	5	27	
6	Architectural Coating	Architectural Coating	7/25/2031	8/28/2031	5	26	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 16**

**Acres of Paving: 1.14**

**Residential Indoor: 230,850; Residential Outdoor: 76,950; Non-Residential Indoor: 72,000; Non-Residential Outdoor: 24,000; Striped Parking Area: 2,880 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	225.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	150.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	240.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	216.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	43.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>		<b>0.3511</b>	<b>0.3511</b>		<b>0.3511</b>	<b>0.3511</b>		<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0348	1.8987	0.4821	8.0900e-003	0.2612	0.0150	0.2762	0.0715	0.0144	0.0859		885.2445	885.2445	0.0360	0.1404	927.9913
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0681</b>	<b>1.9116</b>	<b>0.7586</b>	<b>8.9400e-003</b>	<b>0.3753</b>	<b>0.0154</b>	<b>0.3907</b>	<b>0.1018</b>	<b>0.0147</b>	<b>0.1165</b>		<b>976.7294</b>	<b>976.7294</b>	<b>0.0376</b>	<b>0.1422</b>	<b>1,020.0540</b>



Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>		<b>0.3511</b>	<b>0.3511</b>		<b>0.3511</b>	<b>0.3511</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0348	1.8987	0.4821	8.0900e-003	0.2612	0.0150	0.2762	0.0715	0.0144	0.0859		885.2445	885.2445	0.0360	0.1404	927.9913
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0681</b>	<b>1.9116</b>	<b>0.7586</b>	<b>8.9400e-003</b>	<b>0.3753</b>	<b>0.0154</b>	<b>0.3907</b>	<b>0.1018</b>	<b>0.0147</b>	<b>0.1165</b>		<b>976.7294</b>	<b>976.7294</b>	<b>0.0376</b>	<b>0.1422</b>	<b>1,020.0540</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.6570</b>	<b>0.4367</b>	<b>20.0937</b>	<b>10.1025</b>	<b>0.4367</b>	<b>10.5391</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**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	0.0348	1.8987	0.4821	8.0900e-003	0.2612	0.0150	0.2762	0.0715	0.0144	0.0859		885.2445	885.2445	0.0360	0.1404	927.9913
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0399	0.0155	0.3318	1.0200e-003	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		109.7819	109.7819	1.8800e-003	2.1700e-003	110.4752
<b>Total</b>	<b>0.0747</b>	<b>1.9142</b>	<b>0.8139</b>	<b>9.1100e-003</b>	<b>0.3981</b>	<b>0.0155</b>	<b>0.4136</b>	<b>0.1078</b>	<b>0.0148</b>	<b>0.1226</b>		<b>995.0264</b>	<b>995.0264</b>	<b>0.0379</b>	<b>0.1426</b>	<b>1,038.4665</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>8.8457</b>	<b>0.4367</b>	<b>9.2823</b>	<b>4.5461</b>	<b>0.4367</b>	<b>4.9828</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**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	0.0348	1.8987	0.4821	8.0900e-003	0.2612	0.0150	0.2762	0.0715	0.0144	0.0859		885.2445	885.2445	0.0360	0.1404	927.9913
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0399	0.0155	0.3318	1.0200e-003	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		109.7819	109.7819	1.8800e-003	2.1700e-003	110.4752
<b>Total</b>	<b>0.0747</b>	<b>1.9142</b>	<b>0.8139</b>	<b>9.1100e-003</b>	<b>0.3981</b>	<b>0.0155</b>	<b>0.4136</b>	<b>0.1078</b>	<b>0.0148</b>	<b>0.1226</b>		<b>995.0264</b>	<b>995.0264</b>	<b>0.0379</b>	<b>0.1426</b>	<b>1,038.4665</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.720 1	3,439.720 1	0.1437		3,443.311 7
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>7.0826</b>	<b>0.2340</b>	<b>7.3166</b>	<b>3.4247</b>	<b>0.2340</b>	<b>3.6588</b>		<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**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	0.0348	1.8987	0.4821	8.0900e-003	0.2612	0.0150	0.2762	0.0715	0.0144	0.0859		885.2445	885.2445	0.0360	0.1404	927.9913
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0681</b>	<b>1.9116</b>	<b>0.7586</b>	<b>8.9400e-003</b>	<b>0.3753</b>	<b>0.0154</b>	<b>0.3907</b>	<b>0.1018</b>	<b>0.0147</b>	<b>0.1165</b>		<b>976.7294</b>	<b>976.7294</b>	<b>0.0376</b>	<b>0.1422</b>	<b>1,020.054 0</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.720 1	3,439.720 1	0.1437		3,443.311 7
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>3.1872</b>	<b>0.2340</b>	<b>3.4212</b>	<b>1.5411</b>	<b>0.2340</b>	<b>1.7751</b>	<b>0.0000</b>	<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**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	0.0348	1.8987	0.4821	8.0900e-003	0.2612	0.0150	0.2762	0.0715	0.0144	0.0859		885.2445	885.2445	0.0360	0.1404	927.9913
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0129	0.2765	8.5000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.7000e-004	0.0306		91.4849	91.4849	1.5700e-003	1.8100e-003	92.0627
<b>Total</b>	<b>0.0681</b>	<b>1.9116</b>	<b>0.7586</b>	<b>8.9400e-003</b>	<b>0.3753</b>	<b>0.0154</b>	<b>0.3907</b>	<b>0.1018</b>	<b>0.0147</b>	<b>0.1165</b>		<b>976.7294</b>	<b>976.7294</b>	<b>0.0376</b>	<b>0.1422</b>	<b>1,020.054 0</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0445	1.7137	0.5322	6.9400e-003	0.2529	9.3900e-003	0.2623	0.0728	8.9800e-003	0.0818		745.5055	745.5055	0.0182	0.1107	778.9393
Worker	0.4786	0.1858	3.9816	0.0122	1.6431	5.7300e-003	1.6488	0.4359	5.2700e-003	0.4411		1,317.3831	1,317.3831	0.0226	0.0260	1,325.7027
<b>Total</b>	<b>0.5231</b>	<b>1.8995</b>	<b>4.5139</b>	<b>0.0191</b>	<b>1.8960</b>	<b>0.0151</b>	<b>1.9111</b>	<b>0.5086</b>	<b>0.0143</b>	<b>0.5229</b>		<b>2,062.8885</b>	<b>2,062.8885</b>	<b>0.0409</b>	<b>0.1367</b>	<b>2,104.6420</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0445	1.7137	0.5322	6.9400e-003	0.2529	9.3900e-003	0.2623	0.0728	8.9800e-003	0.0818		745.5055	745.5055	0.0182	0.1107	778.9393
Worker	0.4786	0.1858	3.9816	0.0122	1.6431	5.7300e-003	1.6488	0.4359	5.2700e-003	0.4411		1,317.3831	1,317.3831	0.0226	0.0260	1,325.7027
<b>Total</b>	<b>0.5231</b>	<b>1.8995</b>	<b>4.5139</b>	<b>0.0191</b>	<b>1.8960</b>	<b>0.0151</b>	<b>1.9111</b>	<b>0.5086</b>	<b>0.0143</b>	<b>0.5229</b>		<b>2,062.8885</b>	<b>2,062.8885</b>	<b>0.0409</b>	<b>0.1367</b>	<b>2,104.6420</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0435	1.6923	0.5286	6.8200e-003	0.2529	9.2200e-003	0.2621	0.0728	8.8200e-003	0.0816		733.0069	733.0069	0.0179	0.1090	765.9216
Worker	0.4509	0.1748	3.8458	0.0119	1.6431	5.3600e-003	1.6485	0.4359	4.9300e-003	0.4408		1,297.2243	1,297.2243	0.0210	0.0252	1,305.2725
<b>Total</b>	<b>0.4944</b>	<b>1.8672</b>	<b>4.3744</b>	<b>0.0187</b>	<b>1.8960</b>	<b>0.0146</b>	<b>1.9106</b>	<b>0.5086</b>	<b>0.0138</b>	<b>0.5224</b>		<b>2,030.2312</b>	<b>2,030.2312</b>	<b>0.0390</b>	<b>0.1342</b>	<b>2,071.1940</b>



Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0435	1.6923	0.5286	6.8200e-003	0.2529	9.2200e-003	0.2621	0.0728	8.8200e-003	0.0816		733.0069	733.0069	0.0179	0.1090	765.9216
Worker	0.4509	0.1748	3.8458	0.0119	1.6431	5.3600e-003	1.6485	0.4359	4.9300e-003	0.4408		1,297.2243	1,297.2243	0.0210	0.0252	1,305.2725
<b>Total</b>	<b>0.4944</b>	<b>1.8672</b>	<b>4.3744</b>	<b>0.0187</b>	<b>1.8960</b>	<b>0.0146</b>	<b>1.9106</b>	<b>0.5086</b>	<b>0.0138</b>	<b>0.5224</b>		<b>2,030.2312</b>	<b>2,030.2312</b>	<b>0.0390</b>	<b>0.1342</b>	<b>2,071.1940</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439
<b>Total</b>	<b>0.0313</b>	<b>0.0121</b>	<b>0.2671</b>	<b>8.3000e-004</b>	<b>0.1141</b>	<b>3.7000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.4000e-004</b>	<b>0.0306</b>		<b>90.0850</b>	<b>90.0850</b>	<b>1.4600e-003</b>	<b>1.7500e-003</b>	<b>90.6439</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439
<b>Total</b>	<b>0.0313</b>	<b>0.0121</b>	<b>0.2671</b>	<b>8.3000e-004</b>	<b>0.1141</b>	<b>3.7000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.4000e-004</b>	<b>0.0306</b>		<b>90.0850</b>	<b>90.0850</b>	<b>1.4600e-003</b>	<b>1.7500e-003</b>	<b>90.6439</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	72.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>72.6293</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0898	0.0348	0.7656	2.3700e-003	0.3271	1.0700e-003	0.3282	0.0868	9.8000e-004	0.0878		258.2437	258.2437	4.1800e-003	5.0300e-003	259.8459
<b>Total</b>	<b>0.0898</b>	<b>0.0348</b>	<b>0.7656</b>	<b>2.3700e-003</b>	<b>0.3271</b>	<b>1.0700e-003</b>	<b>0.3282</b>	<b>0.0868</b>	<b>9.8000e-004</b>	<b>0.0878</b>		<b>258.2437</b>	<b>258.2437</b>	<b>4.1800e-003</b>	<b>5.0300e-003</b>	<b>259.8459</b>

Innovation Park CNU Phase 3C - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	72.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>72.6293</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0898	0.0348	0.7656	2.3700e-003	0.3271	1.0700e-003	0.3282	0.0868	9.8000e-004	0.0878		258.2437	258.2437	4.1800e-003	5.0300e-003	259.8459
<b>Total</b>	<b>0.0898</b>	<b>0.0348</b>	<b>0.7656</b>	<b>2.3700e-003</b>	<b>0.3271</b>	<b>1.0700e-003</b>	<b>0.3282</b>	<b>0.0868</b>	<b>9.8000e-004</b>	<b>0.0878</b>		<b>258.2437</b>	<b>258.2437</b>	<b>4.1800e-003</b>	<b>5.0300e-003</b>	<b>259.8459</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3D**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Day-Care Center	15.00	1000sqft	0.34	15,000.00	0
Health Club	30.00	1000sqft	0.69	30,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2031
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Daycare and health club construction only

Land Use - Daycare and Health Club

Construction Phase - Adjusted Schedule

Trips and VMT - 20 haul trucks/day for demo, site prep, and grading

Grading -

Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	4.00	5.00
tblConstructionPhase	NumDays	200.00	225.00
tblConstructionPhase	NumDays	10.00	11.00
tblConstructionPhase	NumDays	10.00	11.00
tblTripsAndVMT	HaulingTripNumber	0.00	360.00

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tbITripsAndVMT	HaulingTripNumber	0.00	40.00
tbITripsAndVMT	HaulingTripNumber	0.00	100.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	2.3764	15.9395	21.3363	0.0626	7.6936	0.3353	8.0289	3.5907	0.3343	3.9250	0.0000	6,022.3785	6,022.3785	0.2550	0.2092	6,091.0862
2031	38.0618	7.4856	12.5365	0.0260	0.1867	0.1731	0.3157	0.0505	0.1731	0.1993	0.0000	2,388.9321	2,388.9321	0.1012	0.0204	2,397.5347
<b>Maximum</b>	<b>38.0618</b>	<b>15.9395</b>	<b>21.3363</b>	<b>0.0626</b>	<b>7.6936</b>	<b>0.3353</b>	<b>8.0289</b>	<b>3.5907</b>	<b>0.3343</b>	<b>3.9250</b>	<b>0.0000</b>	<b>6,022.3785</b>	<b>6,022.3785</b>	<b>0.2550</b>	<b>0.2092</b>	<b>6,091.0862</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					
2030	0.6633	7.6468	25.2973	0.0626	3.7982	0.0863	3.8845	1.7071	0.0853	1.7924	0.0000	6,022.3785	6,022.3785	0.2550	0.2092	6,091.0862
2031	37.9608	4.0095	13.5505	0.0260	0.1867	0.0323	0.2190	0.0505	0.0322	0.0827	0.0000	2,388.9321	2,388.9321	0.1012	0.0204	2,397.5347
<b>Maximum</b>	<b>37.9608</b>	<b>7.6468</b>	<b>25.2973</b>	<b>0.0626</b>	<b>3.7982</b>	<b>0.0863</b>	<b>3.8845</b>	<b>1.7071</b>	<b>0.0853</b>	<b>1.7924</b>	<b>0.0000</b>	<b>6,022.3785</b>	<b>6,022.3785</b>	<b>0.2550</b>	<b>0.2092</b>	<b>6,091.0862</b>

## Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.49	50.24	-14.69	0.00	49.43	76.67	50.83	51.73	76.84	54.54	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0777	4.0000e-005	4.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.8500e-003	9.8500e-003	3.0000e-005		0.0105
Energy	0.0382	0.3475	0.2919	2.0900e-003		0.0264	0.0264		0.0264	0.0264		417.0508	417.0508	7.9900e-003	7.6500e-003	419.5291
Mobile	3.4429	2.2753	19.6532	0.0358	4.2107	0.0247	4.2354	1.1219	0.0230	1.1449		3,877.3348	3,877.3348	0.2813	0.1993	3,943.7626
<b>Total</b>	<b>4.5588</b>	<b>2.6228</b>	<b>19.9497</b>	<b>0.0379</b>	<b>4.2107</b>	<b>0.0511</b>	<b>4.2619</b>	<b>1.1219</b>	<b>0.0495</b>	<b>1.1713</b>		<b>4,294.3954</b>	<b>4,294.3954</b>	<b>0.2894</b>	<b>0.2070</b>	<b>4,363.3022</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	1.0777	4.0000e-005	4.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.8500e-003	9.8500e-003	3.0000e-005		0.0105
Energy	0.0382	0.3475	0.2919	2.0900e-003		0.0264	0.0264		0.0264	0.0264		417.0508	417.0508	7.9900e-003	7.6500e-003	419.5291
Mobile	3.4429	2.2753	19.6532	0.0358	4.2107	0.0247	4.2354	1.1219	0.0230	1.1449		3,877.3348	3,877.3348	0.2813	0.1993	3,943.7626
<b>Total</b>	<b>4.5588</b>	<b>2.6228</b>	<b>19.9497</b>	<b>0.0379</b>	<b>4.2107</b>	<b>0.0511</b>	<b>4.2619</b>	<b>1.1219</b>	<b>0.0495</b>	<b>1.1713</b>		<b>4,294.3954</b>	<b>4,294.3954</b>	<b>0.2894</b>	<b>0.2070</b>	<b>4,363.3022</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/19/2030	9/11/2030	5	18	
2	Site Preparation	Site Preparation	9/12/2030	9/13/2030	5	2	
3	Grading	Grading	9/16/2030	9/20/2030	5	5	
4	Building Construction	Building Construction	9/20/2030	7/31/2031	5	225	
5	Paving	Paving	8/1/2031	8/15/2031	5	11	
6	Architectural Coating	Architectural Coating	8/18/2031	9/1/2031	5	11	

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 67,500; Non-Residential Outdoor: 22,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	360.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	40.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	100.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	19.00	7.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Water Exposed Area

**3.2 Demolition - 2030**

**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	1.3307	8.0078	12.9685	0.0281		0.2148	0.2148		0.2148	0.2148		2,662.1297	2,662.1297	0.1177		2,665.0713
<b>Total</b>	<b>1.3307</b>	<b>8.0078</b>	<b>12.9685</b>	<b>0.0281</b>		<b>0.2148</b>	<b>0.2148</b>		<b>0.2148</b>	<b>0.2148</b>		<b>2,662.1297</b>	<b>2,662.1297</b>	<b>0.1177</b>		<b>2,665.0713</b>

**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	0.0465	2.5316	0.6428	0.0108	0.3483	0.0200	0.3683	0.0953	0.0192	0.1145		1,180.3260	1,180.3260	0.0481	0.1872	1,237.3217
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0288	0.0112	0.2396	7.3000e-004	0.0989	3.4000e-004	0.0992	0.0262	3.2000e-004	0.0266		79.2869	79.2869	1.3600e-003	1.5700e-003	79.7877
<b>Total</b>	<b>0.0753</b>	<b>2.5428</b>	<b>0.8824</b>	<b>0.0115</b>	<b>0.4472</b>	<b>0.0204</b>	<b>0.4676</b>	<b>0.1216</b>	<b>0.0195</b>	<b>0.1410</b>		<b>1,259.6129</b>	<b>1,259.6129</b>	<b>0.0494</b>	<b>0.1888</b>	<b>1,317.1093</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2811	1.2179	14.7184	0.0281		0.0375	0.0375		0.0375	0.0375	0.0000	2,662.1297	2,662.1297	0.1177		2,665.0713
<b>Total</b>	<b>0.2811</b>	<b>1.2179</b>	<b>14.7184</b>	<b>0.0281</b>		<b>0.0375</b>	<b>0.0375</b>		<b>0.0375</b>	<b>0.0375</b>	<b>0.0000</b>	<b>2,662.1297</b>	<b>2,662.1297</b>	<b>0.1177</b>		<b>2,665.0713</b>

**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	0.0465	2.5316	0.6428	0.0108	0.3483	0.0200	0.3683	0.0953	0.0192	0.1145		1,180.3260	1,180.3260	0.0481	0.1872	1,237.3217
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0288	0.0112	0.2396	7.3000e-004	0.0989	3.4000e-004	0.0992	0.0262	3.2000e-004	0.0266		79.2869	79.2869	1.3600e-003	1.5700e-003	79.7877
<b>Total</b>	<b>0.0753</b>	<b>2.5428</b>	<b>0.8824</b>	<b>0.0115</b>	<b>0.4472</b>	<b>0.0204</b>	<b>0.4676</b>	<b>0.1216</b>	<b>0.0195</b>	<b>0.1410</b>		<b>1,259.6129</b>	<b>1,259.6129</b>	<b>0.0494</b>	<b>0.1888</b>	<b>1,317.1093</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	0.9750	4.7401	5.9133	0.0211		0.1567	0.1567		0.1567	0.1567		1,994.6929	1,994.6929	0.0866		1,996.8585
<b>Total</b>	<b>0.9750</b>	<b>4.7401</b>	<b>5.9133</b>	<b>0.0211</b>	<b>6.2662</b>	<b>0.1567</b>	<b>6.4229</b>	<b>3.0041</b>	<b>0.1567</b>	<b>3.1607</b>		<b>1,994.6929</b>	<b>1,994.6929</b>	<b>0.0866</b>		<b>1,996.8585</b>

**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	0.0465	2.5316	0.6428	0.0108	0.3483	0.0200	0.3683	0.0953	0.0192	0.1145		1,180.3260	1,180.3260	0.0481	0.1872	1,237.3217
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0177	6.8800e-003	0.1475	4.5000e-004	0.0609	2.1000e-004	0.0611	0.0161	2.0000e-004	0.0163		48.7920	48.7920	8.4000e-004	9.6000e-004	49.1001
<b>Total</b>	<b>0.0642</b>	<b>2.5385</b>	<b>0.7903</b>	<b>0.0112</b>	<b>0.4091</b>	<b>0.0202</b>	<b>0.4294</b>	<b>0.1115</b>	<b>0.0194</b>	<b>0.1308</b>		<b>1,229.1180</b>	<b>1,229.1180</b>	<b>0.0489</b>	<b>0.1882</b>	<b>1,286.4218</b>



Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2030**

**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					2.8198	0.0000	2.8198	1.3518	0.0000	1.3518			0.0000			0.0000
Off-Road	0.2106	0.9126	8.6714	0.0211		0.0281	0.0281		0.0281	0.0281	0.0000	1,994.6929	1,994.6929	0.0866		1,996.8585
<b>Total</b>	<b>0.2106</b>	<b>0.9126</b>	<b>8.6714</b>	<b>0.0211</b>	<b>2.8198</b>	<b>0.0281</b>	<b>2.8479</b>	<b>1.3518</b>	<b>0.0281</b>	<b>1.3799</b>	<b>0.0000</b>	<b>1,994.6929</b>	<b>1,994.6929</b>	<b>0.0866</b>		<b>1,996.8585</b>

**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	0.0465	2.5316	0.6428	0.0108	0.3483	0.0200	0.3683	0.0953	0.0192	0.1145		1,180.3260	1,180.3260	0.0481	0.1872	1,237.3217
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0177	6.8800e-003	0.1475	4.5000e-004	0.0609	2.1000e-004	0.0611	0.0161	2.0000e-004	0.0163		48.7920	48.7920	8.4000e-004	9.6000e-004	49.1001
<b>Total</b>	<b>0.0642</b>	<b>2.5385</b>	<b>0.7903</b>	<b>0.0112</b>	<b>0.4091</b>	<b>0.0202</b>	<b>0.4294</b>	<b>0.1115</b>	<b>0.0194</b>	<b>0.1308</b>		<b>1,229.1180</b>	<b>1,229.1180</b>	<b>0.0489</b>	<b>0.1882</b>	<b>1,286.4218</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.1771	5.9092	7.9601	0.0252		0.1859	0.1859		0.1859	0.1859		2,388.274 1	2,388.274 1	0.1046		2,390.888 0
<b>Total</b>	<b>1.1771</b>	<b>5.9092</b>	<b>7.9601</b>	<b>0.0252</b>	<b>7.0826</b>	<b>0.1859</b>	<b>7.2685</b>	<b>3.4247</b>	<b>0.1859</b>	<b>3.6107</b>		<b>2,388.274 1</b>	<b>2,388.274 1</b>	<b>0.1046</b>		<b>2,390.888 0</b>

**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	0.0465	2.5316	0.6428	0.0108	0.3483	0.0200	0.3683	0.0953	0.0192	0.1145		1,180.326 0	1,180.326 0	0.0481	0.1872	1,237.321 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0222	8.6000e-003	0.1843	5.6000e-004	0.0761	2.7000e-004	0.0763	0.0202	2.4000e-004	0.0204		60.9900	60.9900	1.0500e-003	1.2000e-003	61.3751
<b>Total</b>	<b>0.0686</b>	<b>2.5402</b>	<b>0.8271</b>	<b>0.0114</b>	<b>0.4244</b>	<b>0.0203</b>	<b>0.4447</b>	<b>0.1155</b>	<b>0.0194</b>	<b>0.1349</b>		<b>1,241.316 0</b>	<b>1,241.316 0</b>	<b>0.0491</b>	<b>0.1884</b>	<b>1,298.696 8</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2030**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.2522	1.0927	10.9071	0.0252		0.0336	0.0336		0.0336	0.0336	0.0000	2,388.274 1	2,388.274 1	0.1046		2,390.888 0
<b>Total</b>	<b>0.2522</b>	<b>1.0927</b>	<b>10.9071</b>	<b>0.0252</b>	<b>3.1872</b>	<b>0.0336</b>	<b>3.2208</b>	<b>1.5411</b>	<b>0.0336</b>	<b>1.5748</b>	<b>0.0000</b>	<b>2,388.274 1</b>	<b>2,388.274 1</b>	<b>0.1046</b>		<b>2,390.888 0</b>

**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	0.0465	2.5316	0.6428	0.0108	0.3483	0.0200	0.3683	0.0953	0.0192	0.1145		1,180.326 0	1,180.326 0	0.0481	0.1872	1,237.321 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0222	8.6000e-003	0.1843	5.6000e-004	0.0761	2.7000e-004	0.0763	0.0202	2.4000e-004	0.0204		60.9900	60.9900	1.0500e-003	1.2000e-003	61.3751
<b>Total</b>	<b>0.0686</b>	<b>2.5402</b>	<b>0.8271</b>	<b>0.0114</b>	<b>0.4244</b>	<b>0.0203</b>	<b>0.4447</b>	<b>0.1155</b>	<b>0.0194</b>	<b>0.1349</b>		<b>1,241.316 0</b>	<b>1,241.316 0</b>	<b>0.0491</b>	<b>0.1884</b>	<b>1,298.696 8</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655
<b>Total</b>	<b>1.0812</b>	<b>7.1882</b>	<b>12.1101</b>	<b>0.0238</b>		<b>0.1270</b>	<b>0.1270</b>		<b>0.1270</b>	<b>0.1270</b>		<b>2,152.6566</b>	<b>2,152.6566</b>	<b>0.0964</b>		<b>2,155.0655</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4200e-003	0.2856	0.0887	1.1600e-003	0.0422	1.5700e-003	0.0437	0.0121	1.5000e-003	0.0136		124.2509	124.2509	3.0400e-003	0.0184	129.8232
Worker	0.0421	0.0163	0.3502	1.0700e-003	0.1445	5.0000e-004	0.1450	0.0383	4.6000e-004	0.0388		115.8809	115.8809	1.9900e-003	2.2900e-003	116.6127
<b>Total</b>	<b>0.0495</b>	<b>0.3020</b>	<b>0.4389</b>	<b>2.2300e-003</b>	<b>0.1867</b>	<b>2.0700e-003</b>	<b>0.1888</b>	<b>0.0505</b>	<b>1.9600e-003</b>	<b>0.0524</b>		<b>240.1318</b>	<b>240.1318</b>	<b>5.0300e-003</b>	<b>0.0207</b>	<b>246.4360</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2930	3.7120	13.1241	0.0238		0.0303	0.0303		0.0303	0.0303	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
<b>Total</b>	<b>0.2930</b>	<b>3.7120</b>	<b>13.1241</b>	<b>0.0238</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0303</b>	<b>0.0303</b>	<b>0.0000</b>	<b>2,152.6566</b>	<b>2,152.6566</b>	<b>0.0964</b>		<b>2,155.0655</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4200e-003	0.2856	0.0887	1.1600e-003	0.0422	1.5700e-003	0.0437	0.0121	1.5000e-003	0.0136		124.2509	124.2509	3.0400e-003	0.0184	129.8232
Worker	0.0421	0.0163	0.3502	1.0700e-003	0.1445	5.0000e-004	0.1450	0.0383	4.6000e-004	0.0388		115.8809	115.8809	1.9900e-003	2.2900e-003	116.6127
<b>Total</b>	<b>0.0495</b>	<b>0.3020</b>	<b>0.4389</b>	<b>2.2300e-003</b>	<b>0.1867</b>	<b>2.0700e-003</b>	<b>0.1888</b>	<b>0.0505</b>	<b>1.9600e-003</b>	<b>0.0524</b>		<b>240.1318</b>	<b>240.1318</b>	<b>5.0300e-003</b>	<b>0.0207</b>	<b>246.4360</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655
<b>Total</b>	<b>1.0812</b>	<b>7.1882</b>	<b>12.1101</b>	<b>0.0238</b>		<b>0.1270</b>	<b>0.1270</b>		<b>0.1270</b>	<b>0.1270</b>		<b>2,152.6566</b>	<b>2,152.6566</b>	<b>0.0964</b>		<b>2,155.0655</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2500e-003	0.2821	0.0881	1.1400e-003	0.0421	1.5400e-003	0.0437	0.0121	1.4700e-003	0.0136		122.1678	122.1678	2.9900e-003	0.0182	127.6536
Worker	0.0397	0.0154	0.3383	1.0500e-003	0.1445	4.7000e-004	0.1450	0.0383	4.3000e-004	0.0388		114.1077	114.1077	1.8500e-003	2.2200e-003	114.8156
<b>Total</b>	<b>0.0469</b>	<b>0.2974</b>	<b>0.4264</b>	<b>2.1900e-003</b>	<b>0.1867</b>	<b>2.0100e-003</b>	<b>0.1887</b>	<b>0.0505</b>	<b>1.9000e-003</b>	<b>0.0524</b>		<b>236.2755</b>	<b>236.2755</b>	<b>4.8400e-003</b>	<b>0.0204</b>	<b>242.4692</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2930	3.7120	13.1241	0.0238		0.0303	0.0303		0.0303	0.0303	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
<b>Total</b>	<b>0.2930</b>	<b>3.7120</b>	<b>13.1241</b>	<b>0.0238</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0303</b>	<b>0.0303</b>	<b>0.0000</b>	<b>2,152.6566</b>	<b>2,152.6566</b>	<b>0.0964</b>		<b>2,155.0655</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2500e-003	0.2821	0.0881	1.1400e-003	0.0421	1.5400e-003	0.0437	0.0121	1.4700e-003	0.0136		122.1678	122.1678	2.9900e-003	0.0182	127.6536
Worker	0.0397	0.0154	0.3383	1.0500e-003	0.1445	4.7000e-004	0.1450	0.0383	4.3000e-004	0.0388		114.1077	114.1077	1.8500e-003	2.2200e-003	114.8156
<b>Total</b>	<b>0.0469</b>	<b>0.2974</b>	<b>0.4264</b>	<b>2.1900e-003</b>	<b>0.1867</b>	<b>2.0100e-003</b>	<b>0.1887</b>	<b>0.0505</b>	<b>1.9000e-003</b>	<b>0.0524</b>		<b>236.2755</b>	<b>236.2755</b>	<b>4.8400e-003</b>	<b>0.0204</b>	<b>242.4692</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728		1,550.971 <sub>2</sub>	1,550.971 <sub>2</sub>	0.0731		1,552.798 <sub>3</sub>
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8162</b>	<b>4.3905</b>	<b>9.4567</b>	<b>0.0165</b>		<b>0.1728</b>	<b>0.1728</b>		<b>0.1728</b>	<b>0.1728</b>		<b>1,550.971<sub>2</sub></b>	<b>1,550.971<sub>2</sub></b>	<b>0.0731</b>		<b>1,552.798<sub>3</sub></b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0271	0.0105	0.2315	7.2000e-004	0.0989	3.2000e-004	0.0992	0.0262	3.0000e-004	0.0265		78.0737	78.0737	1.2700e-003	1.5200e-003	78.5581
<b>Total</b>	<b>0.0271</b>	<b>0.0105</b>	<b>0.2315</b>	<b>7.2000e-004</b>	<b>0.0989</b>	<b>3.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>3.0000e-004</b>	<b>0.0265</b>		<b>78.0737</b>	<b>78.0737</b>	<b>1.2700e-003</b>	<b>1.5200e-003</b>	<b>78.5581</b>



Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1598	0.6922	9.8512	0.0165		0.0213	0.0213		0.0213	0.0213	0.0000	1,550.971 <sub>2</sub>	1,550.971 <sub>2</sub>	0.0731		1,552.798 <sub>3</sub>
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1598</b>	<b>0.6922</b>	<b>9.8512</b>	<b>0.0165</b>		<b>0.0213</b>	<b>0.0213</b>		<b>0.0213</b>	<b>0.0213</b>	<b>0.0000</b>	<b>1,550.971<sub>2</sub></b>	<b>1,550.971<sub>2</sub></b>	<b>0.0731</b>		<b>1,552.798<sub>3</sub></b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0271	0.0105	0.2315	7.2000e-004	0.0989	3.2000e-004	0.0992	0.0262	3.0000e-004	0.0265		78.0737	78.0737	1.2700e-003	1.5200e-003	78.5581
<b>Total</b>	<b>0.0271</b>	<b>0.0105</b>	<b>0.2315</b>	<b>7.2000e-004</b>	<b>0.0989</b>	<b>3.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>3.0000e-004</b>	<b>0.0265</b>		<b>78.0737</b>	<b>78.0737</b>	<b>1.2700e-003</b>	<b>1.5200e-003</b>	<b>78.5581</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	37.9227					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>38.0535</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3500e-003	3.2400e-003	0.0712	2.2000e-004	0.0304	1.0000e-004	0.0305	8.0700e-003	9.0000e-005	8.1600e-003		24.0227	24.0227	3.9000e-004	4.7000e-004	24.1717
<b>Total</b>	<b>8.3500e-003</b>	<b>3.2400e-003</b>	<b>0.0712</b>	<b>2.2000e-004</b>	<b>0.0304</b>	<b>1.0000e-004</b>	<b>0.0305</b>	<b>8.0700e-003</b>	<b>9.0000e-005</b>	<b>8.1600e-003</b>		<b>24.0227</b>	<b>24.0227</b>	<b>3.9000e-004</b>	<b>4.7000e-004</b>	<b>24.1717</b>

Innovation Park CNU Phase 3D - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2031**

**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	37.9227					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>37.9524</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3500e-003	3.2400e-003	0.0712	2.2000e-004	0.0304	1.0000e-004	0.0305	8.0700e-003	9.0000e-005	8.1600e-003		24.0227	24.0227	3.9000e-004	4.7000e-004	24.1717
<b>Total</b>	<b>8.3500e-003</b>	<b>3.2400e-003</b>	<b>0.0712</b>	<b>2.2000e-004</b>	<b>0.0304</b>	<b>1.0000e-004</b>	<b>0.0305</b>	<b>8.0700e-003</b>	<b>9.0000e-005</b>	<b>8.1600e-003</b>		<b>24.0227</b>	<b>24.0227</b>	<b>3.9000e-004</b>	<b>4.7000e-004</b>	<b>24.1717</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3E**

**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.40	1000sqft	0.33	14,400.00	0
Enclosed Parking Structure	48.00	Space	0.43	14,400.00	0
Congregate Care (Assisted Living)	100.00	Dwelling Unit	6.25	57,600.00	267

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2032
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	357.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics - Active Senior Living BLDG
- Land Use - Active Senior Living Building
- Construction Phase - Adjusted Schedule
- Trips and VMT - 10 truck/day for demo, site prep. grading
- Grading -
- Construction Off-road Equipment Mitigation - Tier 4 MM + dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	10.00	8.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	230.00	308.00
tblConstructionPhase	NumDays	20.00	26.00

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	20.00	27.00
tblLandUse	LandUseSquareFeet	19,200.00	14,400.00
tblLandUse	LandUseSquareFeet	100,000.00	57,600.00
tblTripsAndVMT	HaulingTripNumber	0.00	160.00
tblTripsAndVMT	HaulingTripNumber	0.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	170.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2031	3.1699	17.6116	32.8641	0.0804	19.9681	0.4469	20.4150	10.1864	0.4465	10.6329	0.0000	7,767.187 3	7,767.187 3	0.2995	0.1423	7,817.080 0
2032	31.9541	8.5962	17.7781	0.0379	0.7217	0.3310	0.8750	0.1935	0.3310	0.3612	0.0000	3,647.097 1	3,647.097 1	0.1301	0.0478	3,664.602 1
<b>Maximum</b>	<b>31.9541</b>	<b>17.6116</b>	<b>32.8641</b>	<b>0.0804</b>	<b>19.9681</b>	<b>0.4469</b>	<b>20.4150</b>	<b>10.1864</b>	<b>0.4465</b>	<b>10.6329</b>	<b>0.0000</b>	<b>7,767.187 3</b>	<b>7,767.187 3</b>	<b>0.2995</b>	<b>0.1423</b>	<b>7,817.080 0</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					
2031	0.9339	5.7352	37.4683	0.0804	9.1567	0.1048	9.2290	4.6301	0.1040	4.7020	0.0000	7,767.187 3	7,767.187 3	0.2995	0.1423	7,817.080 0
2032	31.8531	2.8963	19.0813	0.0379	0.7217	0.0460	0.7676	0.1935	0.0457	0.2391	0.0000	3,647.097 1	3,647.097 1	0.1301	0.0478	3,664.602 1
<b>Maximum</b>	<b>31.8531</b>	<b>5.7352</b>	<b>37.4683</b>	<b>0.0804</b>	<b>9.1567</b>	<b>0.1048</b>	<b>9.2290</b>	<b>4.6301</b>	<b>0.1040</b>	<b>4.7020</b>	<b>0.0000</b>	<b>7,767.187 3</b>	<b>7,767.187 3</b>	<b>0.2995</b>	<b>0.1423</b>	<b>7,817.080 0</b>

## Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.65	67.07	-11.67	0.00	52.25	80.63	53.05	53.53	80.75	55.06	0.00	0.00	0.00	0.00	0.00	0.00



Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0278	0.0949	8.2347	4.4000e-004		0.0458	0.0458		0.0458	0.0458	0.0000	14.8689	14.8689	0.0142	0.0000	15.2236
Energy	0.0333	0.2880	0.1433	1.8200e-003		0.0230	0.0230		0.0230	0.0230		363.7502	363.7502	6.9700e-003	6.6700e-003	365.9118
Mobile	1.0937	0.9391	8.7482	0.0187	2.3125	0.0115	2.3239	0.6161	0.0107	0.6268		2,033.7288	2,033.7288	0.1177	0.0856	2,062.1790
<b>Total</b>	<b>3.1548</b>	<b>1.3220</b>	<b>17.1262</b>	<b>0.0209</b>	<b>2.3125</b>	<b>0.0803</b>	<b>2.3928</b>	<b>0.6161</b>	<b>0.0795</b>	<b>0.6956</b>	<b>0.0000</b>	<b>2,412.3479</b>	<b>2,412.3479</b>	<b>0.1388</b>	<b>0.0923</b>	<b>2,443.3144</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	2.0278	0.0949	8.2347	4.4000e-004		0.0458	0.0458		0.0458	0.0458	0.0000	14.8689	14.8689	0.0142	0.0000	15.2236
Energy	0.0333	0.2880	0.1433	1.8200e-003		0.0230	0.0230		0.0230	0.0230		363.7502	363.7502	6.9700e-003	6.6700e-003	365.9118
Mobile	1.0937	0.9391	8.7482	0.0187	2.3125	0.0115	2.3239	0.6161	0.0107	0.6268		2,033.7288	2,033.7288	0.1177	0.0856	2,062.1790
<b>Total</b>	<b>3.1548</b>	<b>1.3220</b>	<b>17.1262</b>	<b>0.0209</b>	<b>2.3125</b>	<b>0.0803</b>	<b>2.3928</b>	<b>0.6161</b>	<b>0.0795</b>	<b>0.6956</b>	<b>0.0000</b>	<b>2,412.3479</b>	<b>2,412.3479</b>	<b>0.1388</b>	<b>0.0923</b>	<b>2,443.3144</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/18/2031	3/11/2031	5	16	
2	Site Preparation	Site Preparation	3/12/2031	3/21/2031	5	8	
3	Grading	Grading	3/24/2031	4/15/2031	5	17	
4	Building Construction	Building Construction	4/15/2031	6/17/2032	5	308	
5	Paving	Paving	6/18/2032	7/23/2032	5	26	
6	Architectural Coating	Architectural Coating	7/26/2032	8/30/2032	5	27	

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 0.43**

**Residential Indoor: 116,640; Residential Outdoor: 38,880; Non-Residential Indoor: 21,600; Non-Residential Outdoor: 7,200; Striped Parking Area: 864 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	160.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	80.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	170.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	15.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2031**

**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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>		<b>0.3511</b>	<b>0.3511</b>		<b>0.3511</b>	<b>0.3511</b>		<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0228	1.2431	0.3217	5.3000e-003	0.1741	9.8200e-003	0.1839	0.0477	9.3900e-003	0.0571		579.5768	579.5768	0.0237	0.0919	607.5651
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439
<b>Total</b>	<b>0.0541</b>	<b>1.2552</b>	<b>0.5888</b>	<b>6.1300e-003</b>	<b>0.2882</b>	<b>0.0102</b>	<b>0.2984</b>	<b>0.0779</b>	<b>9.7300e-003</b>	<b>0.0877</b>		<b>669.6618</b>	<b>669.6618</b>	<b>0.0251</b>	<b>0.0937</b>	<b>698.2090</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0462		0.0616	0.0616		0.0616	0.0616	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0462</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**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	0.0228	1.2431	0.3217	5.3000e-003	0.1741	9.8200e-003	0.1839	0.0477	9.3900e-003	0.0571		579.5768	579.5768	0.0237	0.0919	607.5651
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439
<b>Total</b>	<b>0.0541</b>	<b>1.2552</b>	<b>0.5888</b>	<b>6.1300e-003</b>	<b>0.2882</b>	<b>0.0102</b>	<b>0.2984</b>	<b>0.0779</b>	<b>9.7300e-003</b>	<b>0.0877</b>		<b>669.6618</b>	<b>669.6618</b>	<b>0.0251</b>	<b>0.0937</b>	<b>698.2090</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.6570</b>	<b>0.4367</b>	<b>20.0937</b>	<b>10.1025</b>	<b>0.4367</b>	<b>10.5391</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**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	0.0228	1.2431	0.3217	5.3000e-003	0.1741	9.8200e-003	0.1839	0.0477	9.3900e-003	0.0571		579.5768	579.5768	0.0237	0.0919	607.5651
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0376	0.0146	0.3205	9.9000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		108.1020	108.1020	1.7500e-003	2.1000e-003	108.7727
<b>Total</b>	<b>0.0604</b>	<b>1.2576</b>	<b>0.6422</b>	<b>6.2900e-003</b>	<b>0.3111</b>	<b>0.0103</b>	<b>0.3213</b>	<b>0.0840</b>	<b>9.8000e-003</b>	<b>0.0938</b>		<b>687.6788</b>	<b>687.6788</b>	<b>0.0254</b>	<b>0.0940</b>	<b>716.3378</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2031**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**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	0.0228	1.2431	0.3217	5.3000e-003	0.1741	9.8200e-003	0.1839	0.0477	9.3900e-003	0.0571		579.5768	579.5768	0.0237	0.0919	607.5651
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0376	0.0146	0.3205	9.9000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		108.1020	108.1020	1.7500e-003	2.1000e-003	108.7727
<b>Total</b>	<b>0.0604</b>	<b>1.2576</b>	<b>0.6422</b>	<b>6.2900e-003</b>	<b>0.3111</b>	<b>0.0103</b>	<b>0.3213</b>	<b>0.0840</b>	<b>9.8000e-003</b>	<b>0.0938</b>		<b>687.6788</b>	<b>687.6788</b>	<b>0.0254</b>	<b>0.0940</b>	<b>716.3378</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.720 1	3,439.720 1	0.1437		3,443.3117
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>7.0826</b>	<b>0.2340</b>	<b>7.3166</b>	<b>3.4247</b>	<b>0.2340</b>	<b>3.6588</b>		<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**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	0.0228	1.2431	0.3217	5.3000e-003	0.1741	9.8200e-003	0.1839	0.0477	9.3900e-003	0.0571		579.5768	579.5768	0.0237	0.0919	607.5651
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439
<b>Total</b>	<b>0.0541</b>	<b>1.2552</b>	<b>0.5888</b>	<b>6.1300e-003</b>	<b>0.2882</b>	<b>0.0102</b>	<b>0.2984</b>	<b>0.0779</b>	<b>9.7300e-003</b>	<b>0.0877</b>		<b>669.6618</b>	<b>669.6618</b>	<b>0.0251</b>	<b>0.0937</b>	<b>698.2090</b>



Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0363		0.0484	0.0484		0.0484	0.0484	0.0000	3,439.720 1	3,439.720 1	0.1437		3,443.3117
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0363</b>	<b>3.1872</b>	<b>0.0484</b>	<b>3.2356</b>	<b>1.5411</b>	<b>0.0484</b>	<b>1.5896</b>	<b>0.0000</b>	<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**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	0.0228	1.2431	0.3217	5.3000e-003	0.1741	9.8200e-003	0.1839	0.0477	9.3900e-003	0.0571		579.5768	579.5768	0.0237	0.0919	607.5651
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439
<b>Total</b>	<b>0.0541</b>	<b>1.2552</b>	<b>0.5888</b>	<b>6.1300e-003</b>	<b>0.2882</b>	<b>0.0102</b>	<b>0.2984</b>	<b>0.0779</b>	<b>9.7300e-003</b>	<b>0.0877</b>		<b>669.6618</b>	<b>669.6618</b>	<b>0.0251</b>	<b>0.0937</b>	<b>698.2090</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0155	0.6044	0.1888	2.4400e-003	0.0903	3.2900e-003	0.0936	0.0260	3.1500e-003	0.0291		261.7882	261.7882	6.4100e-003	0.0389	273.5434
Worker	0.1733	0.0672	1.4778	4.5800e-003	0.6314	2.0600e-003	0.6334	0.1675	1.9000e-003	0.1694		498.4704	498.4704	8.0800e-003	9.7000e-003	501.5630
<b>Total</b>	<b>0.1888</b>	<b>0.6716</b>	<b>1.6666</b>	<b>7.0200e-003</b>	<b>0.7217</b>	<b>5.3500e-003</b>	<b>0.7270</b>	<b>0.1935</b>	<b>5.0500e-003</b>	<b>0.1985</b>		<b>760.2586</b>	<b>760.2586</b>	<b>0.0145</b>	<b>0.0486</b>	<b>775.1064</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0155	0.6044	0.1888	2.4400e-003	0.0903	3.2900e-003	0.0936	0.0260	3.1500e-003	0.0291		261.7882	261.7882	6.4100e-003	0.0389	273.5434
Worker	0.1733	0.0672	1.4778	4.5800e-003	0.6314	2.0600e-003	0.6334	0.1675	1.9000e-003	0.1694		498.4704	498.4704	8.0800e-003	9.7000e-003	501.5630
<b>Total</b>	<b>0.1888</b>	<b>0.6716</b>	<b>1.6666</b>	<b>7.0200e-003</b>	<b>0.7217</b>	<b>5.3500e-003</b>	<b>0.7270</b>	<b>0.1935</b>	<b>5.0500e-003</b>	<b>0.1985</b>		<b>760.2586</b>	<b>760.2586</b>	<b>0.0145</b>	<b>0.0486</b>	<b>775.1064</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.5979	0.1880	2.4000e-003	0.0903	3.2400e-003	0.0935	0.0260	3.1000e-003	0.0291		257.8632	257.8632	6.3200e-003	0.0384	269.4558
Worker	0.1634	0.0637	1.4331	4.4900e-003	0.6314	1.9300e-003	0.6333	0.1675	1.7800e-003	0.1693		491.6872	491.6872	7.5400e-003	9.4600e-003	494.6935
<b>Total</b>	<b>0.1787</b>	<b>0.6616</b>	<b>1.6211</b>	<b>6.8900e-003</b>	<b>0.7217</b>	<b>5.1700e-003</b>	<b>0.7269</b>	<b>0.1935</b>	<b>4.8800e-003</b>	<b>0.1983</b>		<b>749.5503</b>	<b>749.5503</b>	<b>0.0139</b>	<b>0.0478</b>	<b>764.1492</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.5979	0.1880	2.4000e-003	0.0903	3.2400e-003	0.0935	0.0260	3.1000e-003	0.0291		257.8632	257.8632	6.3200e-003	0.0384	269.4558
Worker	0.1634	0.0637	1.4331	4.4900e-003	0.6314	1.9300e-003	0.6333	0.1675	1.7800e-003	0.1693		491.6872	491.6872	7.5400e-003	9.4600e-003	494.6935
<b>Total</b>	<b>0.1787</b>	<b>0.6616</b>	<b>1.6211</b>	<b>6.8900e-003</b>	<b>0.7217</b>	<b>5.1700e-003</b>	<b>0.7269</b>	<b>0.1935</b>	<b>4.8800e-003</b>	<b>0.1983</b>		<b>749.5503</b>	<b>749.5503</b>	<b>0.0139</b>	<b>0.0478</b>	<b>764.1492</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0295	0.0115	0.2590	8.1000e-004	0.1141	3.5000e-004	0.1145	0.0303	3.2000e-004	0.0306		88.8591	88.8591	1.3600e-003	1.7100e-003	89.4024
<b>Total</b>	<b>0.0295</b>	<b>0.0115</b>	<b>0.2590</b>	<b>8.1000e-004</b>	<b>0.1141</b>	<b>3.5000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.2000e-004</b>	<b>0.0306</b>		<b>88.8591</b>	<b>88.8591</b>	<b>1.3600e-003</b>	<b>1.7100e-003</b>	<b>89.4024</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0295	0.0115	0.2590	8.1000e-004	0.1141	3.5000e-004	0.1145	0.0303	3.2000e-004	0.0306		88.8591	88.8591	1.3600e-003	1.7100e-003	89.4024
<b>Total</b>	<b>0.0295</b>	<b>0.0115</b>	<b>0.2590</b>	<b>8.1000e-004</b>	<b>0.1141</b>	<b>3.5000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.2000e-004</b>	<b>0.0306</b>		<b>88.8591</b>	<b>88.8591</b>	<b>1.3600e-003</b>	<b>1.7100e-003</b>	<b>89.4024</b>

Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	31.7899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>31.9207</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0335	0.0131	0.2935	9.2000e-004	0.1293	4.0000e-004	0.1297	0.0343	3.6000e-004	0.0347		100.7070	100.7070	1.5400e-003	1.9400e-003	101.3228
<b>Total</b>	<b>0.0335</b>	<b>0.0131</b>	<b>0.2935</b>	<b>9.2000e-004</b>	<b>0.1293</b>	<b>4.0000e-004</b>	<b>0.1297</b>	<b>0.0343</b>	<b>3.6000e-004</b>	<b>0.0347</b>		<b>100.7070</b>	<b>100.7070</b>	<b>1.5400e-003</b>	<b>1.9400e-003</b>	<b>101.3228</b>



Innovation Park CNU Phase 3E - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	31.7899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>31.8196</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0335	0.0131	0.2935	9.2000e-004	0.1293	4.0000e-004	0.1297	0.0343	3.6000e-004	0.0347		100.7070	100.7070	1.5400e-003	1.9400e-003	101.3228
<b>Total</b>	<b>0.0335</b>	<b>0.0131</b>	<b>0.2935</b>	<b>9.2000e-004</b>	<b>0.1293</b>	<b>4.0000e-004</b>	<b>0.1297</b>	<b>0.0343</b>	<b>3.6000e-004</b>	<b>0.0347</b>		<b>100.7070</b>	<b>100.7070</b>	<b>1.5400e-003</b>	<b>1.9400e-003</b>	<b>101.3228</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Innovation Park CNU Phase 3F  
Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,200.00	Space	10.80	207,000.00	0
Strip Mall	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2032
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Parking/Retail Construction ONLY

Land Use - Retail + Parking structure 2

Construction Off-road Equipment Mitigation - Tier 4+ PM BMPs

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblLandUse	LandUseSquareFeet	480,000.00	207,000.00

**2.0 Emissions Summary**

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Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2031	3.3224	13.8623	23.3800	0.0710	19.7939	0.4884	20.2310	10.1388	0.4884	10.5758	0.0000	7,333.2219	7,333.2219	0.2935	0.1210	7,341.2549
2032	26.2254	9.6877	18.4618	0.0433	1.0364	0.3310	1.1960	0.2806	0.3310	0.4396	0.0000	4,229.7297	4,229.7297	0.1433	0.1192	4,268.8257
<b>Maximum</b>	<b>26.2254</b>	<b>13.8623</b>	<b>23.3800</b>	<b>0.0710</b>	<b>19.7939</b>	<b>0.4884</b>	<b>20.2310</b>	<b>10.1388</b>	<b>0.4884</b>	<b>10.5758</b>	<b>0.0000</b>	<b>7,333.2219</b>	<b>7,333.2219</b>	<b>0.2935</b>	<b>0.1210</b>	<b>7,341.2549</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					
2031	0.8033	4.0104	33.3552	0.0710	8.9826	0.1020	9.0451	4.5824	0.1020	4.6449	0.0000	7,333.2219	7,333.2219	0.2935	0.1210	7,341.2549
2032	26.1244	3.9878	19.7650	0.0433	1.0364	0.0523	1.0886	0.2806	0.0517	0.3323	0.0000	4,229.7297	4,229.7297	0.1433	0.1192	4,268.8257
<b>Maximum</b>	<b>26.1244</b>	<b>4.0104</b>	<b>33.3552</b>	<b>0.0710</b>	<b>8.9826</b>	<b>0.1020</b>	<b>9.0451</b>	<b>4.5824</b>	<b>0.1020</b>	<b>4.6449</b>	<b>0.0000</b>	<b>7,333.2219</b>	<b>7,333.2219</b>	<b>0.2935</b>	<b>0.1210</b>	<b>7,341.2549</b>

## Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	8.87	66.04	-26.96	0.00	51.90	81.17	52.71	53.33	81.24	54.82	0.00	0.00	0.00	0.00	0.00	0.00

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2977	1.1400e-003	0.1270	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2736	0.2736	7.1000e-004		0.2912
Energy	7.9300e-003	0.0721	0.0606	4.3000e-004		5.4800e-003	5.4800e-003		5.4800e-003	5.4800e-003		86.5431	86.5431	1.6600e-003	1.5900e-003	87.0574
Mobile	4.3739	2.9432	25.8299	0.0477	5.7391	0.0316	5.7707	1.5290	0.0295	1.5584		5,189.4973	5,189.4973	0.3662	0.2615	5,276.5909
<b>Total</b>	<b>5.6795</b>	<b>3.0164</b>	<b>26.0175</b>	<b>0.0481</b>	<b>5.7391</b>	<b>0.0375</b>	<b>5.7766</b>	<b>1.5290</b>	<b>0.0354</b>	<b>1.5644</b>		<b>5,276.3139</b>	<b>5,276.3139</b>	<b>0.3685</b>	<b>0.2631</b>	<b>5,363.9395</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	1.2977	1.1400e-003	0.1270	1.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.2736	0.2736	7.1000e-004		0.2912
Energy	7.9300e-003	0.0721	0.0606	4.3000e-004		5.4800e-003	5.4800e-003		5.4800e-003	5.4800e-003		86.5431	86.5431	1.6600e-003	1.5900e-003	87.0574
Mobile	4.3739	2.9432	25.8299	0.0477	5.7391	0.0316	5.7707	1.5290	0.0295	1.5584		5,189.4973	5,189.4973	0.3662	0.2615	5,276.5909
<b>Total</b>	<b>5.6795</b>	<b>3.0164</b>	<b>26.0175</b>	<b>0.0481</b>	<b>5.7391</b>	<b>0.0375</b>	<b>5.7766</b>	<b>1.5290</b>	<b>0.0354</b>	<b>1.5644</b>		<b>5,276.3139</b>	<b>5,276.3139</b>	<b>0.3685</b>	<b>0.2631</b>	<b>5,363.9395</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/18/2031	4/14/2031	5	20	
2	Site Preparation	Site Preparation	4/15/2031	4/28/2031	5	10	
3	Grading	Grading	4/29/2031	6/9/2031	5	30	
4	Building Construction	Building Construction	6/10/2031	8/2/2032	5	300	
5	Paving	Paving	8/3/2032	8/30/2032	5	20	
6	Architectural Coating	Architectural Coating	8/31/2032	9/27/2032	5	20	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 10.8**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 12,420 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	103.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area



Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2031**

**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	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>		<b>0.3511</b>	<b>0.3511</b>		<b>0.3511</b>	<b>0.3511</b>		<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439
<b>Total</b>	<b>0.0313</b>	<b>0.0121</b>	<b>0.2671</b>	<b>8.3000e-004</b>	<b>0.1141</b>	<b>3.7000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.4000e-004</b>	<b>0.0306</b>		<b>90.0850</b>	<b>90.0850</b>	<b>1.4600e-003</b>	<b>1.7500e-003</b>	<b>90.6439</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4623	2.0032	23.2798	0.0462		0.0616	0.0616		0.0616	0.0616	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>0.4623</b>	<b>2.0032</b>	<b>23.2798</b>	<b>0.0462</b>		<b>0.0616</b>	<b>0.0616</b>		<b>0.0616</b>	<b>0.0616</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439
<b>Total</b>	<b>0.0313</b>	<b>0.0121</b>	<b>0.2671</b>	<b>8.3000e-004</b>	<b>0.1141</b>	<b>3.7000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.4000e-004</b>	<b>0.0306</b>		<b>90.0850</b>	<b>90.0850</b>	<b>1.4600e-003</b>	<b>1.7500e-003</b>	<b>90.6439</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.6570</b>	<b>0.4367</b>	<b>20.0937</b>	<b>10.1025</b>	<b>0.4367</b>	<b>10.5391</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0376	0.0146	0.3205	9.9000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		108.1020	108.1020	1.7500e-003	2.1000e-003	108.7727
<b>Total</b>	<b>0.0376</b>	<b>0.0146</b>	<b>0.3205</b>	<b>9.9000e-004</b>	<b>0.1369</b>	<b>4.5000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.1000e-004</b>	<b>0.0367</b>		<b>108.1020</b>	<b>108.1020</b>	<b>1.7500e-003</b>	<b>2.1000e-003</b>	<b>108.7727</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2031**

**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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>8.8457</b>	<b>0.0621</b>	<b>8.9077</b>	<b>4.5461</b>	<b>0.0621</b>	<b>4.6082</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0376	0.0146	0.3205	9.9000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		108.1020	108.1020	1.7500e-003	2.1000e-003	108.7727
<b>Total</b>	<b>0.0376</b>	<b>0.0146</b>	<b>0.3205</b>	<b>9.9000e-004</b>	<b>0.1369</b>	<b>4.5000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.1000e-004</b>	<b>0.0367</b>		<b>108.1020</b>	<b>108.1020</b>	<b>1.7500e-003</b>	<b>2.1000e-003</b>	<b>108.7727</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>9.2036</b>	<b>0.4879</b>	<b>9.6915</b>	<b>3.6538</b>	<b>0.4879</b>	<b>4.1417</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0418	0.0162	0.3561	1.1000e-003	0.1521	5.0000e-004	0.1526	0.0404	4.6000e-004	0.0408		120.1134	120.1134	1.9500e-003	2.3400e-003	120.8586
<b>Total</b>	<b>0.0418</b>	<b>0.0162</b>	<b>0.3561</b>	<b>1.1000e-003</b>	<b>0.1521</b>	<b>5.0000e-004</b>	<b>0.1526</b>	<b>0.0404</b>	<b>4.6000e-004</b>	<b>0.0408</b>		<b>120.1134</b>	<b>120.1134</b>	<b>1.9500e-003</b>	<b>2.3400e-003</b>	<b>120.8586</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2031**

**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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>4.1416</b>	<b>0.1015</b>	<b>4.2432</b>	<b>1.6442</b>	<b>0.1015</b>	<b>1.7457</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0418	0.0162	0.3561	1.1000e-003	0.1521	5.0000e-004	0.1526	0.0404	4.6000e-004	0.0408		120.1134	120.1134	1.9500e-003	2.3400e-003	120.8586
<b>Total</b>	<b>0.0418</b>	<b>0.0162</b>	<b>0.3561</b>	<b>1.1000e-003</b>	<b>0.1521</b>	<b>5.0000e-004</b>	<b>0.1526</b>	<b>0.0404</b>	<b>4.6000e-004</b>	<b>0.0408</b>		<b>120.1134</b>	<b>120.1134</b>	<b>1.9500e-003</b>	<b>2.3400e-003</b>	<b>120.8586</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0435	1.6923	0.5286	6.8200e-003	0.2529	9.2200e-003	0.2621	0.0728	8.8200e-003	0.0816		733.0069	733.0069	0.0179	0.1090	765.9216
Worker	0.2150	0.0834	1.8339	5.6800e-003	0.7835	2.5600e-003	0.7861	0.2078	2.3500e-003	0.2102		618.5838	618.5838	0.0100	0.0120	622.4216
<b>Total</b>	<b>0.2585</b>	<b>1.7757</b>	<b>2.3625</b>	<b>0.0125</b>	<b>1.0364</b>	<b>0.0118</b>	<b>1.0482</b>	<b>0.2806</b>	<b>0.0112</b>	<b>0.2918</b>		<b>1,351.5907</b>	<b>1,351.5907</b>	<b>0.0280</b>	<b>0.1210</b>	<b>1,388.3432</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0435	1.6923	0.5286	6.8200e-003	0.2529	9.2200e-003	0.2621	0.0728	8.8200e-003	0.0816		733.0069	733.0069	0.0179	0.1090	765.9216
Worker	0.2150	0.0834	1.8339	5.6800e-003	0.7835	2.5600e-003	0.7861	0.2078	2.3500e-003	0.2102		618.5838	618.5838	0.0100	0.0120	622.4216
<b>Total</b>	<b>0.2585</b>	<b>1.7757</b>	<b>2.3625</b>	<b>0.0125</b>	<b>1.0364</b>	<b>0.0118</b>	<b>1.0482</b>	<b>0.2806</b>	<b>0.0112</b>	<b>0.2918</b>		<b>1,351.5907</b>	<b>1,351.5907</b>	<b>0.0280</b>	<b>0.1210</b>	<b>1,388.3432</b>



Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0427	1.6740	0.5263	6.7200e-003	0.2529	9.0700e-003	0.2619	0.0728	8.6700e-003	0.0814		722.0169	722.0169	0.0177	0.1074	754.4761
Worker	0.2028	0.0791	1.7784	5.5700e-003	0.7835	2.4000e-003	0.7859	0.2078	2.2100e-003	0.2100		610.1660	610.1660	9.3600e-003	0.0117	613.8967
<b>Total</b>	<b>0.2454</b>	<b>1.7531</b>	<b>2.3048</b>	<b>0.0123</b>	<b>1.0364</b>	<b>0.0115</b>	<b>1.0478</b>	<b>0.2806</b>	<b>0.0109</b>	<b>0.2915</b>		<b>1,332.1829</b>	<b>1,332.1829</b>	<b>0.0270</b>	<b>0.1192</b>	<b>1,368.3728</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0427	1.6740	0.5263	6.7200e-003	0.2529	9.0700e-003	0.2619	0.0728	8.6700e-003	0.0814		722.0169	722.0169	0.0177	0.1074	754.4761
Worker	0.2028	0.0791	1.7784	5.5700e-003	0.7835	2.4000e-003	0.7859	0.2078	2.2100e-003	0.2100		610.1660	610.1660	9.3600e-003	0.0117	613.8967
<b>Total</b>	<b>0.2454</b>	<b>1.7531</b>	<b>2.3048</b>	<b>0.0123</b>	<b>1.0364</b>	<b>0.0115</b>	<b>1.0478</b>	<b>0.2806</b>	<b>0.0109</b>	<b>0.2915</b>		<b>1,332.1829</b>	<b>1,332.1829</b>	<b>0.0270</b>	<b>0.1192</b>	<b>1,368.3728</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0295	0.0115	0.2590	8.1000e-004	0.1141	3.5000e-004	0.1145	0.0303	3.2000e-004	0.0306		88.8591	88.8591	1.3600e-003	1.7100e-003	89.4024
<b>Total</b>	<b>0.0295</b>	<b>0.0115</b>	<b>0.2590</b>	<b>8.1000e-004</b>	<b>0.1141</b>	<b>3.5000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.2000e-004</b>	<b>0.0306</b>		<b>88.8591</b>	<b>88.8591</b>	<b>1.3600e-003</b>	<b>1.7100e-003</b>	<b>89.4024</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0295	0.0115	0.2590	8.1000e-004	0.1141	3.5000e-004	0.1145	0.0303	3.2000e-004	0.0306		88.8591	88.8591	1.3600e-003	1.7100e-003	89.4024
<b>Total</b>	<b>0.0295</b>	<b>0.0115</b>	<b>0.2590</b>	<b>8.1000e-004</b>	<b>0.1141</b>	<b>3.5000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.2000e-004</b>	<b>0.0306</b>		<b>88.8591</b>	<b>88.8591</b>	<b>1.3600e-003</b>	<b>1.7100e-003</b>	<b>89.4024</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	26.0533					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>26.1841</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0161	0.3626	1.1400e-003	0.1598	4.9000e-004	0.1602	0.0424	4.5000e-004	0.0428		124.4028	124.4028	1.9100e-003	2.3900e-003	125.1634
<b>Total</b>	<b>0.0413</b>	<b>0.0161</b>	<b>0.3626</b>	<b>1.1400e-003</b>	<b>0.1598</b>	<b>4.9000e-004</b>	<b>0.1602</b>	<b>0.0424</b>	<b>4.5000e-004</b>	<b>0.0428</b>		<b>124.4028</b>	<b>124.4028</b>	<b>1.9100e-003</b>	<b>2.3900e-003</b>	<b>125.1634</b>

Innovation Park CNU Phase 3F - Sacramento County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2032**

**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	26.0533					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>26.0830</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0161	0.3626	1.1400e-003	0.1598	4.9000e-004	0.1602	0.0424	4.5000e-004	0.0428		124.4028	124.4028	1.9100e-003	2.3900e-003	125.1634
<b>Total</b>	<b>0.0413</b>	<b>0.0161</b>	<b>0.3626</b>	<b>1.1400e-003</b>	<b>0.1598</b>	<b>4.9000e-004</b>	<b>0.1602</b>	<b>0.0424</b>	<b>4.5000e-004</b>	<b>0.0428</b>		<b>124.4028</b>	<b>124.4028</b>	<b>1.9100e-003</b>	<b>2.3900e-003</b>	<b>125.1634</b>

# Revised Construction CO2e Emissions

## Innovation Park PUD and CNU Medical Center

Construction Year	CO2e Emissions by Year (MT/year)			
	IP PUD	CNU	Total	Amount Exceeded
2022	1,225	1,793	3,018	1,918
2023	1,597	1,742	3,339	2,239
2024	1,432	2,124	3,556	2,456
2025	1,401	999	2,401	1,301
2026	984	47	1,031	0
2027	1,492	507	1,999	899
2028	1,327	1,526	2,852	1,752
2029	1,236	1,505	2,741	1,641
2030	848	1,159	2,007	907
2031	1,454	1,317	2,771	1,671
2032	1,308	557	1,865	765
2033	1,286		1,286	186
2034	942		942	0
2035	1,413		1,413	313
2036	1,275		1,275	175
2037	1,271		1,271	171
2038	219		219	0
<b>TOTAL</b>	<b>20,712</b>	<b>13,276</b>	<b>33,988</b>	<b>16,395</b>

## Innovation Park PUD

Phase	Construction Year	MT of CO <sub>2</sub> e from CalEEMod output
		Total
Demo	2022	425.0
Part 1	2022	799.9
Part 1	2023	1,597.3
Part 1	2024	1,432.0
Part 1	2025	1,401.4
Part 1	2026	222.4
Part 2	2026	761.9
Part 2	2027	1,491.6
Part 2	2028	1,326.7
Part 2	2029	1,236.3
Part 2	2030	73.7
Part 3	2030	774.6
Part 3	2031	1,454.4
Part 3	2032	1,308.3
Part 3	2033	1,286.1
Part 3	2034	215.2

Construction Year	CO2e Emissions by Year (MT/year)
	Total
2022	1,224.8
2023	1,597.3
2024	1,432.0
2025	1,401.4
2026	984.3
2027	1,491.6
2028	1,326.7
2029	1,236.3
2030	848.2
2031	1,454.4
2032	1,308.3
2033	1,286.1
2034	942.2
2035	1,413.1
2036	1,275.4
2037	1,270.5

Part 4	2034	727.0
Part 4	2035	1,413.1
Part 4	2036	1,275.4
Part 4	2037	1,270.5
Part 4	2038	219.0

2038	219.0
2039	0.0
2040	0.0
<b>TOTAL</b>	<b>20,711.6</b>
<b>Annual Average</b>	<b>1,294.5</b>

**CNU Medical Center**

Phase	Construction Year	MT of CO <sub>2</sub> e from CalEEMod output
		Total
1A	2022	1793.1
1A	2023	1113.8
1A	2024	1104.8
1A	2025	306.4
1B	2023	628.2
1B	2024	881.1
1B	2025	375.4
2A	2027	114.4
2A	2028	495.2
2A	2029	244.1
2B	2028	376.8
2B	2029	241.1
2C	2024	138.2
2C	2025	291.1
2D	2025	26.5
2D	2026	46.9
2E	2027	392.8
2E	2028	229.1
2F	2028	424.6
2F	2029	250.4
3A	2029	390.5
3A	2030	276.5
3B	2029	379.1
3B	2030	250.8
3C	2030	508.7
3C	2031	304.0
3D	2030	123.0
3D	2031	174.3
3E	2031	395.4
3E	2032	235.6
3F	2031	443.2
3F	2032	321.1

Construction Year	CO <sub>2</sub> e Emissions by Year (MT/year)
	Onsite Diesel
2022	1,793.1
2023	1,742.0
2024	2,124.1
2025	999.4
2026	46.9
2027	507.2
2028	1,525.7
2029	1,505.1
2030	1,158.9
2031	1,316.9
2032	556.7
<b>TOTAL</b>	<b>13,276.1</b>
<b>Average Annual</b>	<b>1,327.6</b>



Appendix C4  
Helicopter Emissions Calculations  
(Comment A8-7)

		Annual Emissions Using Yellow Distances to Side																	
Operation Mode	Fuel (g)	Distance (Lm)	Distance (miles)	Duration	CO (g)	TIC (g)	TOG (g)	VOC (g)	NMHC (g)	NOx (g)	nvPM Mas:	nvPM Num	PMSO (g)	PMFO (g)	CO2 (g)	I2O (g)	SOx (g)	PM 2.5 (g)	PM 10 (g)
Busy	2561835.72	2425.07	1,455	0	2.28E+03	3.35E+02	3.87E+02	3.85E+02	3.87E+02	3.03E+04	N/A	N/A	0.00E+00	0.00E+00	8.08E+06	3.17E+06	3.00E+03	0.00E+00	0.00E+00
Busy	2604690.67	2361.52	1,417	0	2.32E+03	3.40E+02	3.93E+02	3.91E+02	3.93E+02	3.08E+04	N/A	N/A	0.00E+00	0.00E+00	8.22E+06	3.22E+06	3.05E+03	0.00E+00	0.00E+00

Departure Distance 30.31338  
 Arrival Distance 29.519

		CO (g)	TIC (g)	TOG (g)	VOC (g)	NMHC (g)	NOx (g)	nvPM Mas:	nvPM Num	PMSO (g)	PMFO (g)	CO2 (g)	I2O (g)	SOx (g)	PM 2.5 (g)	PM 10 (g)	Fuel Burn (g)
Additional Departure Emissions		1804.579		306.2855	304.6692		23959					6,385,688.90		2370.278	0	0	2,023,998
Additional Arrivals		1851.365		314.3159	312.5451		24574.2					6,549,901.37		2431.3002	0	0	2,076,042

Annual Emissions ALL								
CO (ST)	TOG (ST)	VOC (ST)	NOx (ST)	SOx (ST)	PM 2.5 (ST)	PM 10 (ST)	CO2 (MT)	Fuel Burn (gal)
0.00910	0.00154	0.00154	0.12078	0.01196	0	0	29.24	10.21
								3044.60

Daily Emissions								
CO (ST)	TOG (ST)	VOC (ST)	NOx (ST)	SOx (ST)	PM 2.5 (ST)	PM 10 (ST)	CO2 (MT)	Fuel Burn (gal)
0.00460	0.00078	0.00078	0.06100	0.00604	0.00000	0.00000	14.77	4.68
								1395.15
0.00010	0.00002	0.00002	0.00127	0.00013	0.00000	0.00000	0.30766	29.06565

**Appendix C5**  
GHG Electricity and Natural Gas  
(Comment A8-12)

**Innovation Park and CNU Energy Emissions - Revised to Show Electricity and Natural Gas GHG Emissions Separately**

Innovation Park - Natural Gas Only				Energy Use		Pollutant lb/yr							
Sub Type	Land Use Type	Building SF	Dwelling Units	kWhr/yr	KBTU/yr	ROG	NOX	PM10	PM2_5	CO2	CH4	N2O	
Apartments Mid Rise	Residential	1735036	1693	15941677.4		172	1469	119	119	1875491	36	34	
City Park	Recreational	313632	0	0		0	0	0	0	0	0	0	
Condo/townhouse	Residential	474000	474	8945332.74		96	824	67	67	1052392	20	19	
Elementary School	Educational	261360	0	3951763.2		43	387	29	29	464913	9	9	
General Heavy Industry	Industrial	37026	0	1317014.82		14	129	10	10	154943	3	3	
General Office Building	Commercial	365904	0	4749433.92		51	466	35	35	558757	11	10	
Health Club	Recreational	457380	0	16269006.6		175	1595	121	121	1914001	37	35	
Hotel	Recreational	217800	150	8328672		90	817	62	62	979844	19	18	
Parking Lot	Parking	1742400	0	0		0	0	0	0	0	0	0	
Single Family Housing	Residential	552600	307	7263254.67		78	669	54	54	854501	16	16	
Strip Mall	Retail	198198	0	1064323.26		11	104	8	8	125215	2	2	
						732	6461	505	505	7980056	153	146	lb/yr
						2.00	17.70	1.38	1.38	21863.17	0.42	0.40	lb/day
						0.37	3.23	0.25	0.25	3990.03	0.08	0.07	ton/yr

CO2e 3641.207 MT/yr

Innovation Park Electricity Use Only				Energy Use		Pollutant lb/yr							
Sub Type	Land Use Type	Building SF	Dwelling Units	kWhr/yr	KBTU/yr	ROG	NOX	PM10	PM2_5	CO2	CH4	N2O	
Apartments Mid Rise	Residential	1735036	1693	6592068		0	0	0	0	1384334	0	0	
City Park	Recreational	313632	0	0		0	0	0	0	0	0	0	
Condo/townhouse	Residential	474000	474	2311343		0	0	0	0	485382	0	0	
Elementary School	Educational	261360	0	1855656		0	0	0	0	389688	0	0	
General Heavy Industry	Industrial	37026	0	548725.3		0	0	0	0	115232	0	0	
General Office Building	Commercial	365904	0	5086066		0	0	0	0	1068074	0	0	
Health Club	Recreational	457380	0	6778372		0	0	0	0	1423458	0	0	
Hotel	Recreational	217800	150	2051676		0	0	0	0	430852	0	0	
Parking Lot	Parking	1742400	0	609840		0	0	0	0	128066	0	0	
Single Family Housing	Residential	552600	307	2427569		0	0	0	0	509789	0	0	
Strip Mall	Retail	198198	0	2223782		0	0	0	0	466994	0	0	
						0	0	0	0	6401870	0	0	lb/yr
						0.00	0.00	0.00	0.00	17539.37	0.00	0.00	lb/day
						0.00	0.00	0.00	0.00	3200.94	0.00	0.00	ton/yr

CO2e 2903.843 MT/yr

DEIR Appendix Section C.4-1 check 6545.05

CalEEMod Check

Sub Type	Land Use Type	Sum of Building SF	Sum of Dwellings	Energy Use		Pollutant lb/yr								
				kWhr/yr	KBTU/yr	ROG	NOX	PM10	PM2_5	CO2	CH4	N2O		
Apartments Mid Rise	Residential	268000	500	1946860	4708115									
Congregate Care (Assisted Living)	Residential	57600	100	389372	941623									
Day-Care Center	Educational	30000	0	213000	453600									
Enclosed Parking Structure	Parking	233600		1226400	0									
Enclosed Parking with Enclosed Structure	Parking	616000	0	3351040	0									
General Heavy Industry	Industrial	124000	0	1837680	4410680									
General Office Building	Commercial	100400	0	1395560	1303192									
Health Club	Recreational	30000	0	444600	1067100									
Hospital	Commercial	1421800	0	27511830	95175292									
Strip Mall	Retail	132000	0	1481040	708840									
University/College (4yr)	Educational	540000	0	4390200	14029200									
<b>Total Energy</b>				<b>44187582</b>	<b>122797642</b>									
	Boilers Only (natural gas)		From Elk Grove	0	118924000	1283	11659	886	886	13991059	268	257	lb/yr	
						3.51	31.94	2.43	2.43	38331.67	0.73	0.70	lb/day	
						0.64	5.83	0.44	0.44	6995.53	0.13	0.13	ton/yr	
											CO2e	6383.958	MT/yr	
	Electricity Only		From Elk Grove	39921600	0	0	0	0	0	8383536	0	0	lb/yr	
						0.00	0.00	0.00	0.00	22968.59	0.00	0.00	lb/day	
						0.00	0.00	0.00	0.00	4191.77	0.00	0.00	ton/yr	
											CO2e	3802.712	MT/yr	

**Total Project - non-stationary sources**

Annual	ROG tpy	NOX tpy	PM10 tpy	PM2_5 tpy	CO2e MT/yr
Energy (NG)	1.01	9.06	0.70	0.70	3641.20699
Energy (Electricity)					2903.84284

DEIR Appendix Section C.4-1 check **10186.67**

Total CO2e electricity 6706.555 MT/yr

**Total Project - Stationary Sources**

Annual	ROG tpy	NOX tpy	PM10 tpy	PM2_5 tpy	CO2e MT/yr
Boilers (NG)					6383.9576
Em. Gens. (diesel) see CalEEMod					308
<b>Total</b>					<b>6691.9576</b>

Daily	ROG ppd	NOX ppd	PM10 ppd	PM2_5 ppd
Energy	5.52	49.64	3.81	3.81

Source	CO2e (MT/year)
Area	53

Energy (natural gas)	3,641
Energy (electricity)	6,707
Mobile	26,562
CNU Medical Center Heliport	29
Waste	11,161
Water	991
Total	49,144