

**Appendix B:
Air Quality, Greenhouse Gas Emissions, and Energy Supporting
Information**

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Appendix A: Air Quality, Greenhouse Gas Emissions, and Energy Supporting Information

Table of Contents

Project CalEEMod Notes	1
Project Construction Emissions.....	2
Project Localized Significance Screening	3
Project GHG Emissions Summary.....	4
Project Energy Use Summary and Calculations	5
Project Construction CalEEMod Output File.....	10
Project Localized Significance Threshold CalEEMod Output File.....	81
Construction Trailer CalEEMod Output File.....	127

Buena Park Artesia Boulevard Electronic Billboards CalEEMod Notes

- Note 1. Land uses and sizes associated with development of the proposed project are based on information provided by the applicant. The total disturbed area would be 97 square feet and the lot acreage was set to be a conservative value of 0.1 acre. Land uses utilized in the model represent the following:
- Industrial > User Identified Industrial > 0.1 acres (97 square feet) = Proposed new billboard
- Note 2. Based on applicant's input, the construction schedule would start in 6/1/2022 and conclude in 6/10/2022. Utility Line Trenching was added as one of the phases.
- Note 3. Based on applicant's input.
- Note 4. Based on applicant's input, cranes were added to reflect the coating needed for the LED billboards.
- Note 5. Trenching is needed based on the applicant.
- Note 6. Based on applicant's input, a trencher was added to reflect the Utility Trenching activity.
- Note 7. The Worker Trips, Vendor Trips, and Hauling Trips were added to reflect the construction activities and a conservative estimate of emissions.
- Note 8. Based on applicant's input, 23 cubic yards of materials would be exported.

For Localized Significance Threshold (LST) runs, the Worker Trips, Vendor Trips, and Hauling Trips were adjusted to be 0.25 mile to reflect the localized emissions.

Maximum Daily Project Construction Emissions

Summer Construction Emissions (lb/day)

Model File: Buena Park Billboard Project - Orange County, Summer

Timestamp: Date: 5/25/2022 12:18 AM

Year	Activity	VOC	NO _x	CO	SO _x	PM ₁₀ (Total)	PM _{2.5} (Total)
2022	Overall Construction	1.8877	13.3561	8.4593	0.02	3.1613	1.7078

Winter Construction Emissions (lb/day)

Model File: Buena Park Billboard Project - Orange County, Winter

Timestamp: Date: 5/25/2022 12:25 AM

Year	Activity	VOC	NO _x	CO	SO _x	PM ₁₀ (Total)	PM _{2.5} (Total)
2022	Overall Construction	1.8904	13.4101	8.4377	0.02	3.1614	1.7079

Maximum Daily Construction Emissions (lb/day)

Activity	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Overall Construction	1.8904	13.4101	8.4593	0.02	3.1614	1.7079
SCAQMD Significance Thresholds	75	100	550	150	150	55
Project Exceeds Threshold?	No	No	No	No	No	No

Construction Localized Significance Screening

Summer Construction Emissions (lb/day)

Model File: Buena Park Billboard Project Localized- Orange County, Summer

Timestamp: Date: 5/25/2022 12:38 AM

Year	Activity	NO _x	CO	PM ₁₀ (Total)	PM _{2.5} (Total)
2022	Overall Construction	13.2783	8.1645	3.06	1.6798

Winter Construction Emissions (lb/day)

Model File: Buena Park Billboard Project Localized - Orange County, Winter

Timestamp: Date: 5/25/2022 12:38 AM

Year	Activity	NO _x	CO	PM ₁₀ (Total)	PM _{2.5} (Total)
2022	Overall Construction	13.3286	8.1733	3.06	1.6799

Maximum Daily Construction Emissions (lb/day)

Activity	NO _x	CO	PM ₁₀	PM _{2.5}
Overall Construction	13.3286	8.1733	3.06	1.6799
SCAQMD LST	103	522	4	3
Project Exceeds Threshold?	No	No	No	No

Project Operational GHG Emissions Summary (Unmitigated)

Construction - GHG Emissions

Buena Park Billboard Project - Orange County, Annual

Date: 5/25/2022 12:14 AM

Emissions Source	Construction CO ₂ e
	Metric Tons
Site Preparation	0.8
Grading	0.9
Utility Line Trenching	0.1
Building Construction (Installation of Billboard)	1.4
Coating	0.7
Total	3.9
Amortized Over 30 Years	0.13

Buena Park Artesia Boulevard Billboard Project Energy Use Summary

Summary of Energy Use During Construction

(Annually)

Construction vehicle fuel	55 gallons (gasoline, diesel)
Construction equipment fuel	351 gallons (diesel)
Total construction fuel	405 gallons (gasoline, diesel)
Construction office electricity	160 kilowatt hours

Construction Vehicle Fuel Calculations

California Air Resource Board (ARB). EMFAC2017 Web Database. Website: <https://arb.ca.gov/emfac/2017/>. Accessed May 19, 2022.

VMT = Vehicle Miles Traveled
FE = Fuel Economy

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: ORANGE

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT (mi/day)	Fuel_Consumption (1000 gallons/day)	Calculations	
									FE	VMT*FE
Orange		2022 HHDT	Aggregated	Aggregated	GAS	9.612146	1076.873786	0.244873	4.397684904	4735.751592
Orange		2022 HHDT	Aggregated	Aggregated	DSL	10986.323	1250867.755	185.4813	6.743902324	8435729.959
Orange		2022 LDA	Aggregated	Aggregated	GAS	1295599.7	49671089.81	1564.655	31.74571032	1576844028
Orange		2022 LDA	Aggregated	Aggregated	DSL	12739.008	501185.1456	10.06179	49.81074718	24964406.58
Orange		2022 LDT1	Aggregated	Aggregated	GAS	142048.72	5238638.572	192.1032	27.26991495	142857228.3
Orange		2022 LDT1	Aggregated	Aggregated	DSL	49.518379	1010.879054	0.040286	25.09229269	25365.27311
Orange		2022 LDT2	Aggregated	Aggregated	GAS	455350.01	16909367.12	671.2854	25.18953624	425939115.8
Orange		2022 LDT2	Aggregated	Aggregated	DSL	2933.7735	124887.9477	3.447912	36.22133059	4523607.639
Orange		2022 LHDT1	Aggregated	Aggregated	GAS	36147.869	1319671.421	123.7914	10.66044663	14068286.75
Orange		2022 LHDT1	Aggregated	Aggregated	DSL	24040.184	978243.4579	45.26163	21.61308556	21142859.55
Orange		2022 LHDT2	Aggregated	Aggregated	GAS	6433.8298	225103.3004	24.30748	9.260659958	2084605.121
Orange		2022 LHDT2	Aggregated	Aggregated	DSL	9390.0802	374620.1723	19.21501	19.49622591	7303679.51
Orange		2022 MHDT	Aggregated	Aggregated	GAS	7524.2466	390927.133	76.68639	5.097738012	1992844.106
Orange		2022 MHDT	Aggregated	Aggregated	DSL	28402.725	1862214.342	171.1836	10.87846037	20258024.91

Worker
Sum of VMT*FE (Column BI) 2175153752
Total VMT 72446179.47
Weighted Average FE 30.0244094

Vendor
Sum of VMT*FE (Column BI) 75290765.66
Total VMT 6402724.455
Weighted Average FE 11.7591763

Haul
Sum of VMT*FE (Column BI) 8440465.71
Total VMT 1251944.629
Weighted Average FE 6.7418842

Project Construction Assumptions

Source: AQ/GHG Appendix, CalEEMod Output
Buena Billboard Project - Orange County, Annual
Date: 5/25/2022 12:14 AM

Construction Schedule	Phase Name	Phase Type	Start Date	End Date	Num Days	
					Week	Num Days
	Site Preparation	Site Preparation	6/1/2022	6/1/2022	5	1
	Grading	Grading	6/2/2022	6/2/2022	5	1
	Utility Line Trenching	Trenching	6/3/2022	6/3/2022	5	1
	Building Construction	Building Construction	6/8/2022	6/9/2022	5	2
	Coating	Architectural Coating	6/10/2022	6/10/2022	5	1
	Total Schedule					6

Trips and VMT	Phase Name	Trips per Day						Total Trips			Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
		Worker Trip		Vendor Trip		Hauling Trip		Worker Trip	Vendor	Hauling Trip	Worker	Vendor	Hauling	Worker	Vendor	Hauling			
		Number	Length	Number	Trip Length	Number	Length	Number	Number	Number	Trips	Trips	Trips	Trips	Trips	Trips			
	Site Preparation	10	2	0	14.7	6.9	20	LD_Mix	1	10	2	0	147	14	0	4.90	1.17	0.00	
	Grading	8	2	8	14.7	6.9	20	LD_Mix	1	8	2	8	118	14	160	3.92	1.17	23.73	
	Utility Line Trenching	3	0	0	14.7	6.9	20	LD_Mix	1	3	0	0	44	0	0	1.47	0.00	0.00	
	Building Construction	10	2	0	14.7	6.9	20	LD_Mix	2	20	4	0	294	28	0	9.79	2.35	0.00	
	Coating	10	2	0	14.7	6.9	20	LD_Mix	1	10	2	0	147	14	0	4.90	1.17	0.00	

On-site Total Construction VMT (miles)
979

On-Site Total Fuel Consumption (gallons)
55

Construction Equipment Fuel Calculation

Source: AQ/GHG Appendix, CalEEMod Output
 Buena Billboard Project - Orange County, Annual
 Date: 5/25/2022 12:14 AM

Construction Schedule	Phase Name	Phase Type	Start Date	End Date	Num Days	
					Week	Num Days
	Site Preparation	Site Preparation	6/1/2022	6/1/2022	5	1
	Grading	Grading	6/2/2022	6/2/2022	5	1
	Utility Line Trenching	Trenching	6/3/2022	6/3/2022	5	1
	Building Construction	Building Construction	6/8/2022	6/9/2022	5	2
	Coating	Architectural Coating	6/10/2022	6/10/2022	5	1

Construction Equipment	Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load	Number of	HP Hours	Diesel Fuel Usage
						Factor	Days		
	Site Preparation	Bore/Drill Rigs	1	4	221	0.5	1	442.00	22.10
	Site Preparation	Cranes	1	4	231	0.29	1	267.96	13.40
	Site Preparation	Graders	1	8	187	0.41	1	613.36	30.67
	Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	1	287.12	14.36
	Grading	Graders	1	6	187	0.41	1	460.02	23.00
	Grading	Rubber Tired Dozers	1	6	247	0.4	1	592.80	29.64
	Grading	Tractors/Loaders/Backhoes	1	7	97	0.37	1	251.23	12.56
	Utility Line Trenching	Trenchers	1	4	78	0.5	1	156.00	7.80
	Building Construction	Cranes	1	8	231	0.29	2	1,071.84	53.59
	Building Construction	Forklifts	2	6	89	0.2	2	427.20	21.36
	Building Construction	Tractors/Loaders/Backhoes	2	8	97	0.37	2	1,148.48	57.42
	Coating	Air Compressors	1	6	78	0.48	1	224.64	11.23
	Coating	Cranes	2	8	231	0.29	1	1,071.84	53.59
Construction Equipment Fuel Consumption									350.72 gallons

Notes:

Equipment assumptions are provided in the CalEEMod output files.
 Fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.
 South Coast Air Quality Management District. 1993. Air Quality Handbook, Table A9-3E.
 Website: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook>.

Construction Office Electricity Calculation

Energy Appendix: CalEEMod Typical Construction Trailer
 Buena Park Billboard Project Construction Trailer - Orange County, Annual
 Date: 5/19/2022 4:02 PM

Mitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	9712.8		1.7225	1.5000e-004	2.0000e-005	1.7314
Total			1.7225	1.5000e-004	2.0000e-005	1.7314

kWh/yr = kilowatt hours per year

Energy by Land Use - Electricity

Annual

9,713 kWh/yr

Total Over Construction

160 kWh

Total Construction Schedule

Start

6/1/2022

End

6/10/2022

Total Working Days

6

Years

0.02

Electricity Consumption Assumptions and Associated GHG Emissions

Assumed annual electricity consumption for the proposed project: 75,000 kWh (or 75 MWh).

Emission Intensity Factors: ¹		Annual Emissions at 75 MWh:		100-Year Global Warming Potentials: ²	
CO ₂	598 lbs./MWh	CO ₂	44,850.00 lbs.	CO ₂	1
CH ₄	0.033 lbs./MWh	CH ₄	2.48 lbs.	CH ₄	298
N ₂ O	0.004 lbs./MWh	N ₂ O	0.30 lbs.	N ₂ O	25
Annual Metric Tons of CO ₂ e:					
		CO ₂	20.34	MT CO ₂ e	
		CH ₄	0.33	MT CO ₂ e	
		N ₂ O	0.003	MT CO ₂ e	
		Total:	20.68	MT CO₂e	

Notes:

Pounds to metric ton conversion rate of 2,204.62 lbs/metric ton used.

CO₂ Intensity Factor to match Southern California Edison’s (SCE) emissions rates provided by year 2020 Power Label Content.¹ The intensity factor utilized in the model is 206 pounds of CO₂ per megawatt-hour delivered. Other intensity factors (CH₄ & N₂O) are drawn from the California Emissions Estimator Model (CalEEMod) Version 2020.4.0 given values.

Sources:

1 California Energy Commission. 2020. Southern California Edison Power Content Label. Website: <https://www.energy.ca.gov/filebrowser/download/3902>. Accessed May 19, 2022.

2 Intergovernmental Panel on Climate Change (IPCC). 2014. Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, R.K. Pachauri and L.A. Meyer (eds.)]. IPCC, Geneva, Switzerland, 151 pp. Website: https://www.ipcc.ch/site/assets/uploads/2018/02/SYR_AR5_FINAL_full.pdf. Accessed March 4, 2022.

Buena Billboard Project - Orange County, Annual

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

**Buena Billboard Project
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.10	97.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use – Note 1: Based on applicant's input, the total disturbed area would be 97 square feet and the lot acreage was set to be an conservative value of 0.1 acre.

Construction Phase – Note 2: Based on applicant's input, the construction schedule would start in 6/1/2022 and conclude in 6/10/2022. Utility Line Trenching was added as one of the phases.

Off-road Equipment – Note 3: Based on applicant's input, cranes' working hours are adjusted.

Off-road Equipment – Note 4: Based on applicant's input, cranes were added to reflect the coating needed for the LED billboards.

Off-road Equipment -

Off-road Equipment – Note 5: Based on applicant's input, the drill rig and crane were added to site preparation activity.

Off-road Equipment – Note 6: Trenching is needed based on the applicant.

Off-road Equipment – Note 7: Based on applicant's input, a trencher was added to reflect the Utility Trenching activity.

Trips and VMT – Note 8: The Worker Trips, Vendor Trips, and Hauling Trips were added to reflect the construction activities and a conservative estimate of emissions.

Grading – Note 9: Based on applicant's input, 23 cubic yards of materials would be exported.

Buena Billboard Project - Orange County, Annual

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

Architectural Coating -

Construction Off-road Equipment Mitigation -

Area Coating -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	NumDays	100.00	2.00
tblConstructionPhase	NumDays	2.00	1.00
tblGrading	MaterialExported	0.00	23.00
tblLandUse	LandUseSquareFeet	0.00	97.00
tblLandUse	LotAcreage	0.00	0.10
tblOffRoadEquipment	UsageHours	4.00	8.00
tblTripsAndVMT	HaulingTripNumber	3.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00

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
Appendix A																

Buena Billboard Project - Orange County, Annual

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

Year	tons/yr										MT/yr					
	2022	2.9700e-003	0.0269	0.0185	4.0000e-005	3.3000e-003	1.1900e-003	4.4900e-003	1.4200e-003	1.1000e-003	2.5100e-003	0.0000	3.9035	3.9035	1.0800e-003	6.0000e-005
Maximum	2.9700e-003	0.0269	0.0185	4.0000e-005	3.3000e-003	1.1900e-003	4.4900e-003	1.4200e-003	1.1000e-003	2.5100e-003	0.0000	3.9035	3.9035	1.0800e-003	6.0000e-005	3.9480

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	2.9700e-003	0.0269	0.0185	4.0000e-005	1.7000e-003	1.1900e-003	2.8900e-003	6.9000e-004	1.1000e-003	1.7900e-003	0.0000	3.9035	3.9035	1.0800e-003	6.0000e-005	3.9480
Maximum	2.9700e-003	0.0269	0.0185	4.0000e-005	1.7000e-003	1.1900e-003	2.8900e-003	6.9000e-004	1.1000e-003	1.7900e-003	0.0000	3.9035	3.9035	1.0800e-003	6.0000e-005	3.9480

	ROG	NOx	CO	SO2	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	48.48	0.00	35.63	51.41	0.00	28.69	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)
Appendix A				

Buena Billboard Project - Orange County, Annual

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

1	6-1-2022	8-31-2022	0.0213	0.0213
		Highest	0.0213	0.0213

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	4.0000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.0000e-004	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

Buena Billboard Project - Orange County, Annual

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

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.0000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.0000e-004	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

	ROG	NOx	CO	SO2	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	6/1/2022	6/1/2022	5	1	
2	Grading	Grading	6/2/2022	6/2/2022	5	1	
3	Appendix A Utility Line Trenching	Trenching	6/3/2022	6/3/2022	5	1	

Buena Billboard Project - Orange County, Annual

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

4	Building Construction	Building Construction	6/8/2022	6/9/2022	5	2
5	Coating	Architectural Coating	6/10/2022	6/10/2022	5	1

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0.75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 146; Non-Residential Outdoor: 49; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Bore/Drill Rigs	1	4.00	221	0.50
Site Preparation	Cranes	1	4.00	231	0.29
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
Utility Line Trenching	Trenchers	1	4.00	78	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Coating	Air Compressors	1	6.00	78	0.48
Coating	Cranes	2	8.00	231	0.29

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
Appendix A										

Buena Billboard Project - Orange County, Annual

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

Site Preparation	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	2.00	8.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Line Trenching	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Coating	3	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-004	5.0800e-003	2.9600e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.8000e-004	1.8000e-004	0.0000	0.7615	0.7615	2.5000e-004	0.0000	0.7676
Total	4.4000e-004	5.0800e-003	2.9600e-003	1.0000e-005	2.7000e-004	1.9000e-004	4.6000e-004	3.0000e-005	1.8000e-004	2.1000e-004	0.0000	0.7615	0.7615	2.5000e-004	0.0000	0.7676

Buena Billboard Project - Orange County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	5.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0188	0.0188	0.0000	0.0000	0.0196
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0431	0.0431	0.0000	0.0000	0.0435
Total	2.0000e-005	6.0000e-005	1.8000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0619	0.0619	0.0000	0.0000	0.0631

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-004	5.0800e-003	2.9600e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.8000e-004	1.8000e-004	0.0000	0.7615	0.7615	2.5000e-004	0.0000	0.7676
Total	4.4000e-004	5.0800e-003	2.9600e-003	1.0000e-005	1.2000e-004	1.9000e-004	3.1000e-004	1.0000e-005	1.8000e-004	1.9000e-004	0.0000	0.7615	0.7615	2.5000e-004	0.0000	0.7676

Buena Billboard Project - Orange County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	5.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0188	0.0188	0.0000	0.0000	0.0196
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0431	0.0431	0.0000	0.0000	0.0435
Total	2.0000e-005	6.0000e-005	1.8000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0619	0.0619	0.0000	0.0000	0.0631

3.3 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					2.6600e-003	0.0000	2.6600e-003	1.2800e-003	0.0000	1.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4000e-004	6.0000e-003	2.9700e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.4000e-004	2.4000e-004	0.0000	0.6191	0.6191	2.0000e-004	0.0000	0.6241
Total	5.4000e-004	6.0000e-003	2.9700e-003	1.0000e-005	2.6600e-003	2.6000e-004	2.9200e-003	1.2800e-003	2.4000e-004	1.5200e-003	0.0000	0.6191	0.6191	2.0000e-004	0.0000	0.6241

Buena Billboard Project - Orange County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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-005	6.6000e-004	1.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2454	0.2454	2.0000e-005	4.0000e-005	0.2577
Vendor	0.0000	5.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0188	0.0188	0.0000	0.0000	0.0196
Worker	1.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0345	0.0345	0.0000	0.0000	0.0348
Total	3.0000e-005	7.2000e-004	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2987	0.2987	2.0000e-005	4.0000e-005	0.3121

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2000e-003	0.0000	1.2000e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4000e-004	6.0000e-003	2.9700e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.4000e-004	2.4000e-004	0.0000	0.6191	0.6191	2.0000e-004	0.0000	0.6241
Total	5.4000e-004	6.0000e-003	2.9700e-003	1.0000e-005	1.2000e-003	2.6000e-004	1.4600e-003	5.8000e-004	2.4000e-004	8.2000e-004	0.0000	0.6191	0.6191	2.0000e-004	0.0000	0.6241

Buena Billboard Project - Orange County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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-005	6.6000e-004	1.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2454	0.2454	2.0000e-005	4.0000e-005	0.2577
Vendor	0.0000	5.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0188	0.0188	0.0000	0.0000	0.0196
Worker	1.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0345	0.0345	0.0000	0.0000	0.0348
Total	3.0000e-005	7.2000e-004	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2987	0.2987	2.0000e-005	4.0000e-005	0.3121

3.4 Utility Line Trenching - 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	9.0000e-005	8.4000e-004	6.5000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0742	0.0742	2.0000e-005	0.0000	0.0748
Total	9.0000e-005	8.4000e-004	6.5000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0742	0.0742	2.0000e-005	0.0000	0.0748

Buena Billboard Project - Orange County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0129	0.0129	0.0000	0.0000	0.0130
Total	0.0000	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0129	0.0129	0.0000	0.0000	0.0130

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.0000e-005	8.4000e-004	6.5000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0742	0.0742	2.0000e-005	0.0000	0.0748
Total	9.0000e-005	8.4000e-004	6.5000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0742	0.0742	2.0000e-005	0.0000	0.0748

Buena Billboard Project - Orange County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0129	0.0129	0.0000	0.0000	0.0130
Total	0.0000	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0129	0.0129	0.0000	0.0000	0.0130

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7000e-004	9.1200e-003	8.1000e-003	1.0000e-005		4.6000e-004	4.6000e-004		4.2000e-004	4.2000e-004	0.0000	1.2550	1.2550	4.1000e-004	0.0000	1.2651
Total	8.7000e-004	9.1200e-003	8.1000e-003	1.0000e-005		4.6000e-004	4.6000e-004		4.2000e-004	4.2000e-004	0.0000	1.2550	1.2550	4.1000e-004	0.0000	1.2651

Buena Billboard Project - Orange County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	9.0000e-005	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0376	0.0376	0.0000	1.0000e-005	0.0393
Worker	3.0000e-005	2.0000e-005	3.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0862	0.0862	0.0000	0.0000	0.0869
Total	3.0000e-005	1.1000e-004	3.4000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1238	0.1238	0.0000	1.0000e-005	0.1262

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.7000e-004	9.1200e-003	8.1000e-003	1.0000e-005		4.6000e-004	4.6000e-004		4.2000e-004	4.2000e-004	0.0000	1.2550	1.2550	4.1000e-004	0.0000	1.2651
Total	8.7000e-004	9.1200e-003	8.1000e-003	1.0000e-005		4.6000e-004	4.6000e-004		4.2000e-004	4.2000e-004	0.0000	1.2550	1.2550	4.1000e-004	0.0000	1.2651

Buena Billboard Project - Orange County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	9.0000e-005	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0376	0.0376	0.0000	1.0000e-005	0.0393
Worker	3.0000e-005	2.0000e-005	3.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0862	0.0862	0.0000	0.0000	0.0869
Total	3.0000e-005	1.1000e-004	3.4000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1238	0.1238	0.0000	1.0000e-005	0.1262

3.6 Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	4.8900e-003	2.8000e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.0000e-004	2.0000e-004	0.0000	0.6346	0.6346	1.7000e-004	0.0000	0.6389
Total	9.3000e-004	4.8900e-003	2.8000e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.0000e-004	2.0000e-004	0.0000	0.6346	0.6346	1.7000e-004	0.0000	0.6389

Buena Billboard Project - Orange County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	5.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0188	0.0188	0.0000	0.0000	0.0196
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0431	0.0431	0.0000	0.0000	0.0435
Total	2.0000e-005	6.0000e-005	1.8000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0619	0.0619	0.0000	0.0000	0.0631

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	4.8900e-003	2.8000e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.0000e-004	2.0000e-004	0.0000	0.6346	0.6346	1.7000e-004	0.0000	0.6389
Total	9.3000e-004	4.8900e-003	2.8000e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.0000e-004	2.0000e-004	0.0000	0.6346	0.6346	1.7000e-004	0.0000	0.6389

Buena Billboard Project - Orange County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	5.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0188	0.0188	0.0000	0.0000	0.0196
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0431	0.0431	0.0000	0.0000	0.0435
Total	2.0000e-005	6.0000e-005	1.8000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0619	0.0619	0.0000	0.0000	0.0631

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Buena Billboard Project - Orange County, Annual

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

Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.542853	0.058126	0.187899	0.130925	0.024443	0.006426	0.014590	0.004841	0.000666	0.000390	0.024092	0.000735	0.004015

5.0 Energy Detail

Buena Billboard Project - Orange County, Annual

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

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Buena Billboard Project - Orange County, Annual

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

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
User Defined Industrial	0		0.0000	0.0000	0.0000	0.0000
Total			0.0000	0.0000	0.0000	0.0000

Buena Billboard Project - Orange County, Annual

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

Mitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
User Defined Industrial	0		0.0000	0.0000	0.0000	0.0000
Total			0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.0000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	4.0000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

Buena Billboard Project - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr						
Architectural Coating	5.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005	
Total	4.0000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005	

Buena Billboard Project - Orange County, Annual

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

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	4.0000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

7.0 Water Detail

7.1 Mitigation Measures Water

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

Buena Billboard Project - Orange County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
User Defined Industrial	0 / 0		0.0000	0.0000	0.0000	0.0000
Total			0.0000	0.0000	0.0000	0.0000

Buena Billboard Project - Orange County, Annual

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

Mitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
User Defined Industrial	0 / 0		0.0000	0.0000	0.0000	0.0000
Total			0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

Buena Billboard Project - Orange County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
User Defined Industrial	0		0.0000	0.0000	0.0000	0.0000
Total			0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
User Defined Industrial	0		0.0000	0.0000	0.0000	0.0000
Total			0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Buena Billboard Project - Orange County, Annual

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

Buena Billboard Project - Orange County, Summer

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

**Buena Billboard Project
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.10	97.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on applicant's input, the total disturbed area would be 97 square feet and the lot acreage was set to be an conservative value of 0.1 acre.

Construction Phase - Based on applicant's input, the construction schedule would start in 6/1/2022 and conclude in 6/10/2022. Utility Line Trenching was added as one of the phases.

Off-road Equipment - Based on applicant's input.

Off-road Equipment - Based on applicant's input, cranes were added to reflect the coating needed for the LED billboards.

Off-road Equipment -

Off-road Equipment - Based on applicant's input, the drill rig and crane were added to site preparation activity.

Off-road Equipment - Trenching is needed based on the applicant.

Off-road Equipment - Based on applicant's input, a trencher was added to reflect the Utility Trenching activity.

Trips and VMT - The Worker Trips, Vendor Trips, and Hauling Trips were added to reflect the construction activities and a conservative estimate of emissions.

Grading - Based on applicant's input, 23 cubic yards of materials would be exported.

Architectural Coating -

Appendix A

Buena Billboard Project - Orange County, Summer

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

Construction Off-road Equipment Mitigation -

Area Coating -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	NumDays	100.00	2.00
tblConstructionPhase	NumDays	2.00	1.00
tblGrading	MaterialExported	0.00	23.00
tblLandUse	LandUseSquareFeet	0.00	97.00
tblLandUse	LotAcreage	0.00	0.10
tblOffRoadEquipment	UsageHours	4.00	8.00
tblTripsAndVMT	HaulingTripNumber	3.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00

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	Appendix A										lb/day					

Buena Billboard Project - Orange County, Summer

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

2022	1.8877	13.3561	8.4593	0.0200	5.5563	0.5281	6.0843	2.6346	0.4862	3.1208	0.0000	2,025.9454	2,025.9454	0.5476	0.0943	2,066.4893
Maximum	1.8877	13.3561	8.4593	0.0200	5.5563	0.5281	6.0843	2.6346	0.4862	3.1208	0.0000	2,025.9454	2,025.9454	0.5476	0.0943	2,066.4893

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	1.8877	13.3561	8.4593	0.0200	2.6333	0.5281	3.1613	1.2216	0.4862	1.7078	0.0000	2,025.9454	2,025.9454	0.5476	0.0943	2,066.4893
Maximum	1.8877	13.3561	8.4593	0.0200	2.6333	0.5281	3.1613	1.2216	0.4862	1.7078	0.0000	2,025.9454	2,025.9454	0.5476	0.0943	2,066.4893

	ROG	NOx	CO	SO2	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	52.61	0.00	48.04	53.63	0.00	45.28	0.00	0.00	0.00	0.00	0.00	0.00

Buena Billboard Project - Orange County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1800e-003	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1800e-003	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Buena Billboard Project - Orange County, Summer

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

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/1/2022	5	1	
2	Grading	Grading	6/2/2022	6/2/2022	5	1	
3	Utility Line Trenching	Trenching	6/3/2022	6/3/2022	5	1	
4	Building Construction	Building Construction	6/8/2022	6/9/2022	5	2	
5	Coating	Architectural Coating	6/10/2022	6/10/2022	5	1	

Acres of Grading (Site Preparation Phase): 0.5**Acres of Grading (Grading Phase): 0.75****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 146; Non-Residential Outdoor: 49; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Bore/Drill Rigs	1	4.00	221	0.50
Site Preparation	Cranes	1	4.00	231	0.29
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

Buena Billboard Project - Orange County, Summer

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

Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Utility Line Trenching	Trenchers	1	4.00	78	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Coating	Air Compressors	1	6.00	78	0.48
Coating	Cranes	2	8.00	231	0.29

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	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	2.00	8.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Line Trenching	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Coating	3	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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					
	Appendix A															

Buena Billboard Project - Orange County, Summer

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

Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.8782	10.1586	5.9264	0.0173		0.3806	0.3806		0.3501	0.3501		1,678.7135	1,678.7135	0.5429		1,692.2867
Total	0.8782	10.1586	5.9264	0.0173	0.5303	0.3806	0.9108	0.0573	0.3501	0.4074		1,678.7135	1,678.7135	0.5429		1,692.2867

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	0.0334	0.1100	0.3605	1.3500e-003	0.1246	1.4700e-003	0.1260	0.0333	1.3900e-003	0.0347		139.9427	139.9427	4.7000e-003	8.1500e-003	142.4905

Buena Billboard Project - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8782	10.1586	5.9264	0.0173		0.3806	0.3806		0.3501	0.3501	0.0000	1,678.7135	1,678.7135	0.5429		1,692.2867
Total	0.8782	10.1586	5.9264	0.0173	0.2386	0.3806	0.6192	0.0258	0.3501	0.3759	0.0000	1,678.7135	1,678.7135	0.5429		1,692.2867

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	0.0334	0.1100	0.3605	1.3500e-003	0.1246	1.4700e-003	0.1260	0.0333	1.3900e-003	0.0347		139.9427	139.9427	4.7000e-003	8.1500e-003	142.4905

Buena Billboard Project - Orange County, Summer

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

3.3 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					5.3145	0.0000	5.3145	2.5690	0.0000	2.5690			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759		1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	5.3145	0.5173	5.8318	2.5690	0.4759	3.0449		1,364.8198	1,364.8198	0.4414		1,375.8551

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0324	1.2455	0.3499	4.7700e-003	0.1395	9.4200e-003	0.1490	0.0382	9.0200e-003	0.0472		540.8771	540.8771	0.0516	0.0866	567.9814
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0241	0.0162	0.2629	7.8000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		78.7769	78.7769	1.8500e-003	1.7700e-003	79.3508
Total	0.0598	1.3514	0.6446	5.9300e-003	0.2417	0.0108	0.2525	0.0656	0.0103	0.0759		661.1256	661.1256	0.0558	0.0943	690.6342

Buena Billboard Project - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3915	0.0000	2.3915	1.1560	0.0000	1.1560			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	2.3915	0.5173	2.9088	1.1560	0.4759	1.6319	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0324	1.2455	0.3499	4.7700e-003	0.1395	9.4200e-003	0.1490	0.0382	9.0200e-003	0.0472		540.8771	540.8771	0.0516	0.0866	567.9814
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0241	0.0162	0.2629	7.8000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		78.7769	78.7769	1.8500e-003	1.7700e-003	79.3508
Total	0.0598	1.3514	0.6446	5.9300e-003	0.2417	0.0108	0.2525	0.0656	0.0103	0.0759		661.1256	661.1256	0.0558	0.0943	690.6342

Buena Billboard Project - Orange County, Summer

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

3.4 Utility Line Trenching - 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	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102		163.4747	163.4747	0.0529		164.7965
Total	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102		163.4747	163.4747	0.0529		164.7965

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566

Buena Billboard Project - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102	0.0000	163.4747	163.4747	0.0529		164.7965
Total	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102	0.0000	163.4747	163.4747	0.0529		164.7965

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566

Buena Billboard Project - Orange County, Summer

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221		1,383.3545	1,383.3545	0.4474		1,394.5396
Total	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221		1,383.3545	1,383.3545	0.4474		1,394.5396

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	0.0334	0.1100	0.3605	1.3500e-003	0.1246	1.4700e-003	0.1260	0.0333	1.3900e-003	0.0347		139.9427	139.9427	4.7000e-003	8.1500e-003	142.4905

Buena Billboard Project - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221	0.0000	1,383.3545	1,383.3545	0.4474		1,394.5396
Total	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221	0.0000	1,383.3545	1,383.3545	0.4474		1,394.5396

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	0.0334	0.1100	0.3605	1.3500e-003	0.1246	1.4700e-003	0.1260	0.0333	1.3900e-003	0.0347		139.9427	139.9427	4.7000e-003	8.1500e-003	142.4905

Buena Billboard Project - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.9038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.9505	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014		1,399.1088	1,399.1088	0.3798		1,408.6037
Total	1.8543	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014		1,399.1088	1,399.1088	0.3798		1,408.6037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	0.0334	0.1100	0.3605	1.3500e-003	0.1246	1.4700e-003	0.1260	0.0333	1.3900e-003	0.0347		139.9427	139.9427	4.7000e-003	8.1500e-003	142.4905

Buena Billboard Project - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.9505	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014	0.0000	1,399.1088	1,399.1088	0.3798		1,408.6037
Total	1.8543	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014	0.0000	1,399.1088	1,399.1088	0.3798		1,408.6037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3300e-003	0.0897	0.0319	3.8000e-004	0.0128	8.7000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4715	41.4715	2.3800e-003	5.9400e-003	43.3020
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	0.0334	0.1100	0.3605	1.3500e-003	0.1246	1.4700e-003	0.1260	0.0333	1.3900e-003	0.0347		139.9427	139.9427	4.7000e-003	8.1500e-003	142.4905

Buena Billboard Project - Orange County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Appendix A Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	Page 53 MH
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Buena Billboard Project - Orange County, Summer

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

User Defined Industrial	0.542853	0.058126	0.187899	0.130925	0.024443	0.006426	0.014590	0.004841	0.000666	0.000390	0.024092	0.000735	0.004015
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Buena Billboard Project - Orange County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Buena Billboard Project - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Buena Billboard Project - Orange County, Summer

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

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Buena Billboard Project - Orange County, Summer

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

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Buena Billboard Project - Orange County, Winter

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

**Buena Billboard Project
Orange County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.10	97.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on applicant's input, the total disturbed area would be 97 square feet and the lot acreage was set to be a conservative value of 0.1 acre.

Construction Phase - Based on applicant's input, the construction schedule would start in 6/1/2022 and conclude in 6/10/2022. Utility Line Trenching was added as one of the phases.

Off-road Equipment - Based on applicant's input.

Off-road Equipment - Based on applicant's input, cranes were added to reflect the coating needed for the LED billboards.

Off-road Equipment -

Off-road Equipment - Based on applicant's input, the drill rig and crane were added to site preparation activity.

Off-road Equipment - Trenching is needed based on the applicant.

Off-road Equipment - Based on applicant's input, a trencher was added to reflect the Utility Trenching activity.

Trips and VMT - The Worker Trips, Vendor Trips, and Hauling Trips were added to reflect the construction activities and a conservative estimate of emissions.

Grading - Based on applicant's input, 23 cubic yards of materials would be exported.

Architectural Coating -

Appendix A

Buena Billboard Project - Orange County, Winter

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

Construction Off-road Equipment Mitigation -

Area Coating -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	NumDays	100.00	2.00
tblConstructionPhase	NumDays	2.00	1.00
tblGrading	MaterialExported	0.00	23.00
tblLandUse	LandUseSquareFeet	0.00	97.00
tblLandUse	LotAcreage	0.00	0.10
tblOffRoadEquipment	UsageHours	4.00	8.00
tblTripsAndVMT	HaulingTripNumber	3.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00

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					
Appendix A																

Buena Billboard Project - Orange County, Winter

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

2022	1.8904	13.4101	8.4377	0.0200	5.5563	0.5281	6.0844	2.6346	0.4862	3.1208	0.0000	2,022.3101	2,022.3101	0.5477	0.0945	2,062.8962
Maximum	1.8904	13.4101	8.4377	0.0200	5.5563	0.5281	6.0844	2.6346	0.4862	3.1208	0.0000	2,022.3101	2,022.3101	0.5477	0.0945	2,062.8962

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	1.8904	13.4101	8.4377	0.0200	2.6333	0.5281	3.1614	1.2216	0.4862	1.7079	0.0000	2,022.3101	2,022.3101	0.5477	0.0945	2,062.8962
Maximum	1.8904	13.4101	8.4377	0.0200	2.6333	0.5281	3.1614	1.2216	0.4862	1.7079	0.0000	2,022.3101	2,022.3101	0.5477	0.0945	2,062.8962

	ROG	NOx	CO	SO2	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	52.61	0.00	48.04	53.63	0.00	45.27	0.00	0.00	0.00	0.00	0.00	0.00

Buena Billboard Project - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1800e-003	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1800e-003	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Buena Billboard Project - Orange County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/1/2022	5	1	
2	Grading	Grading	6/2/2022	6/2/2022	5	1	
3	Utility Line Trenching	Trenching	6/3/2022	6/3/2022	5	1	
4	Building Construction	Building Construction	6/8/2022	6/9/2022	5	2	
5	Coating	Architectural Coating	6/10/2022	6/10/2022	5	1	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0.75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 146; Non-Residential Outdoor: 49; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Bore/Drill Rigs	1	4.00	221	0.50
Site Preparation	Cranes	1	4.00	231	0.29
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

Buena Billboard Project - Orange County, Winter

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

Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Utility Line Trenching	Trenchers	1	4.00	78	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Coating	Air Compressors	1	6.00	78	0.48
Coating	Cranes	2	8.00	231	0.29

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	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	2.00	8.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Line Trenching	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Coating	3	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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					
Appendix A																

Buena Billboard Project - Orange County, Winter

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

Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.8782	10.1586	5.9264	0.0173		0.3806	0.3806		0.3501	0.3501		1,678.7135	1,678.7135	0.5429		1,692.2867
Total	0.8782	10.1586	5.9264	0.0173	0.5303	0.3806	0.9108	0.0573	0.3501	0.4074		1,678.7135	1,678.7135	0.5429		1,692.2867

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	0.0360	0.1155	0.3388	1.3100e-003	0.1246	1.4800e-003	0.1260	0.0333	1.3900e-003	0.0347		135.2346	135.2346	4.7400e-003	8.3100e-003	137.8278

Buena Billboard Project - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8782	10.1586	5.9264	0.0173		0.3806	0.3806		0.3501	0.3501	0.0000	1,678.7135	1,678.7135	0.5429		1,692.2867
Total	0.8782	10.1586	5.9264	0.0173	0.2386	0.3806	0.6192	0.0258	0.3501	0.3759	0.0000	1,678.7135	1,678.7135	0.5429		1,692.2867

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	0.0360	0.1155	0.3388	1.3100e-003	0.1246	1.4800e-003	0.1260	0.0333	1.3900e-003	0.0347		135.2346	135.2346	4.7400e-003	8.3100e-003	137.8278

Buena Billboard Project - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 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					5.3145	0.0000	5.3145	2.5690	0.0000	2.5690			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759		1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	5.3145	0.5173	5.8318	2.5690	0.4759	3.0449		1,364.8198	1,364.8198	0.4414		1,375.8551

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0316	1.2945	0.3550	4.7800e-003	0.1395	9.4400e-003	0.1490	0.0382	9.0400e-003	0.0472		541.0056	541.0056	0.0515	0.0867	568.1156
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0262	0.0178	0.2447	7.4000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		75.0001	75.0001	1.8900e-003	1.8800e-003	75.6089
Total	0.0611	1.4055	0.6326	5.9000e-003	0.2417	0.0108	0.2525	0.0656	0.0103	0.0759		657.4903	657.4903	0.0558	0.0945	687.0412

Buena Billboard Project - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3915	0.0000	2.3915	1.1560	0.0000	1.1560			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	2.3915	0.5173	2.9088	1.1560	0.4759	1.6319	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0316	1.2945	0.3550	4.7800e-003	0.1395	9.4400e-003	0.1490	0.0382	9.0400e-003	0.0472		541.0056	541.0056	0.0515	0.0867	568.1156
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0262	0.0178	0.2447	7.4000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		75.0001	75.0001	1.8900e-003	1.8800e-003	75.6089
Total	0.0611	1.4055	0.6326	5.9000e-003	0.2417	0.0108	0.2525	0.0656	0.0103	0.0759		657.4903	657.4903	0.0558	0.0945	687.0412

Buena Billboard Project - Orange County, Winter

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

3.4 Utility Line Trenching - 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	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102		163.4747	163.4747	0.0529		164.7965
Total	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102		163.4747	163.4747	0.0529		164.7965

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533

Buena Billboard Project - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102	0.0000	163.4747	163.4747	0.0529		164.7965
Total	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102	0.0000	163.4747	163.4747	0.0529		164.7965

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533

Buena Billboard Project - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Building Construction - 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	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221		1,383.3545	1,383.3545	0.4474		1,394.5396
Total	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221		1,383.3545	1,383.3545	0.4474		1,394.5396

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	0.0360	0.1155	0.3388	1.3100e-003	0.1246	1.4800e-003	0.1260	0.0333	1.3900e-003	0.0347		135.2346	135.2346	4.7400e-003	8.3100e-003	137.8278

Buena Billboard Project - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221	0.0000	1,383.3545	1,383.3545	0.4474		1,394.5396
Total	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221	0.0000	1,383.3545	1,383.3545	0.4474		1,394.5396

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	0.0360	0.1155	0.3388	1.3100e-003	0.1246	1.4800e-003	0.1260	0.0333	1.3900e-003	0.0347		135.2346	135.2346	4.7400e-003	8.3100e-003	137.8278

Buena Billboard Project - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.9038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.9505	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014		1,399.1088	1,399.1088	0.3798		1,408.6037
Total	1.8543	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014		1,399.1088	1,399.1088	0.3798		1,408.6037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	0.0360	0.1155	0.3388	1.3100e-003	0.1246	1.4800e-003	0.1260	0.0333	1.3900e-003	0.0347		135.2346	135.2346	4.7400e-003	8.3100e-003	137.8278

Buena Billboard Project - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.9505	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014	0.0000	1,399.1088	1,399.1088	0.3798		1,408.6037
Total	1.8543	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014	0.0000	1,399.1088	1,399.1088	0.3798		1,408.6037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.0933	0.0330	3.8000e-004	0.0128	8.8000e-004	0.0137	3.6800e-003	8.4000e-004	4.5200e-003		41.4845	41.4845	2.3700e-003	5.9500e-003	43.3167
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	0.0360	0.1155	0.3388	1.3100e-003	0.1246	1.4800e-003	0.1260	0.0333	1.3900e-003	0.0347		135.2346	135.2346	4.7400e-003	8.3100e-003	137.8278

Buena Billboard Project - Orange County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Appendix A Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	Page 75 MH
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Buena Billboard Project - Orange County, Winter

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

User Defined Industrial	0.542853	0.058126	0.187899	0.130925	0.024443	0.006426	0.014590	0.004841	0.000666	0.000390	0.024092	0.000735	0.004015
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Buena Billboard Project - Orange County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Buena Billboard Project - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Buena Billboard Project - Orange County, Winter

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

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Buena Billboard Project - Orange County, Winter

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

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

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

Equipment Type	Number
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11.0 Vegetation

Buena Billboard Project - Orange County, Summer

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

**Buena Billboard Project
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.10	97.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on applicant's input, the total disturbed area would be 97 square feet and the lot acreage was set to be an conservative value of 0.1 acre.

Construction Phase - Based on applicant's input, the construction schedule would start in 6/1/2022 and conclude in 6/10/2022. Utility Line Trenching was added as one of the phases.

Off-road Equipment - Based on applicant's input.

Off-road Equipment - Based on applicant's input, cranes were added to reflect the coating needed for the LED billboards.

Off-road Equipment -

Off-road Equipment - Based on applicant's input, the drill rig and crane were added to site preparation activity.

Off-road Equipment - Trenching is needed based on the applicant.

Off-road Equipment - Based on applicant's input, a trencher was added to reflect the Utility Trenching activity.

Trips and VMT - The Worker Trips, Vendor Trips, and Hauling Trips were added to reflect the construction activities and a conservative estimate of emissions.

Grading - Based on applicant's input, 23 cubic yards to materials would be exported.

Architectural Coating -

Buena Billboard Project - Orange County, Summer

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

Construction Off-road Equipment Mitigation -

Area Coating -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	NumDays	100.00	2.00
tblConstructionPhase	NumDays	2.00	1.00
tblGrading	MaterialExported	0.00	23.00
tblLandUse	LandUseSquareFeet	0.00	97.00
tblLandUse	LotAcreage	0.00	0.10
tblOffRoadEquipment	UsageHours	4.00	8.00
tblTripsAndVMT	HaulingTripNumber	3.00	8.00
tblTripsAndVMT	VendorTripLength	6.90	0.25
tblTripsAndVMT	VendorTripLength	6.90	0.25
tblTripsAndVMT	VendorTripLength	6.90	0.25
tblTripsAndVMT	VendorTripLength	6.90	0.25
tblTripsAndVMT	VendorTripLength	6.90	0.25
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.25
tblTripsAndVMT	WorkerTripLength	14.70	0.25
tblTripsAndVMT	WorkerTripLength	14.70	0.25
tblTripsAndVMT	WorkerTripLength	14.70	0.25
tblTripsAndVMT	WorkerTripLength	14.70	0.25
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00

Buena Billboard Project - Orange County, Summer

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

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	1.8681	13.2783	8.1645	0.0189	5.4562	0.5268	5.9830	2.6077	0.4850	3.0928	0.0000	1,913.0272	1,913.0272	0.5443	0.0878	1,951.5459
Maximum	1.8681	13.2783	8.1645	0.0189	5.4562	0.5268	5.9830	2.6077	0.4850	3.0928	0.0000	1,913.0272	1,913.0272	0.5443	0.0878	1,951.5459

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	1.8681	13.2783	8.1645	0.0189	2.5332	0.5268	3.0600	1.1948	0.4850	1.6798	0.0000	1,913.0272	1,913.0272	0.5443	0.0878	1,951.5459
Maximum	1.8681	13.2783	8.1645	0.0189	2.5332	0.5268	3.0600	1.1948	0.4850	1.6798	0.0000	1,913.0272	1,913.0272	0.5443	0.0878	1,951.5459

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Appendix A																

Buena Billboard Project - Orange County, Summer

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

Percent Reduction	0.00	0.00	0.00	0.00	53.57	0.00	48.86	54.18	0.00	45.68	0.00	0.00	0.00	0.00	0.00	0.00
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1800e-003	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Buena Billboard Project - Orange County, Summer

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

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1800e-003	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/1/2022	5	1	
2	Grading	Grading	6/2/2022	6/2/2022	5	1	
3	Utility Line Trenching	Trenching	6/3/2022	6/3/2022	5	1	
4	Building Construction	Building Construction	6/8/2022	6/9/2022	5	2	
5	Coating Appendix A	Architectural Coating	6/10/2022	6/10/2022	5	1	

Buena Billboard Project - Orange County, Summer

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

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0.75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 146; Non-Residential Outdoor: 49; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Bore/Drill Rigs	1	4.00	221	0.50
Site Preparation	Cranes	1	4.00	231	0.29
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
Utility Line Trenching	Trenchers	1	4.00	78	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Coating	Air Compressors	1	6.00	78	0.48
Coating	Cranes	2	8.00	231	0.29

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	4	10.00	2.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	2.00	8.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT
Utility Line Trenching	1	3.00	0.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT

Buena Billboard Project - Orange County, Summer

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

Building Construction	5	10.00	2.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT
Coating	3	10.00	2.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.8782	10.1586	5.9264	0.0173		0.3806	0.3806		0.3501	0.3501		1,678.7135	1,678.7135	0.5429		1,692.2867
Total	0.8782	10.1586	5.9264	0.0173	0.5303	0.3806	0.9108	0.0573	0.3501	0.4074		1,678.7135	1,678.7135	0.5429		1,692.2867

Buena Billboard Project - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2700e-003	0.0243	0.0164	4.0000e-005	5.1000e-004	5.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.0000e-004		4.4549	4.4549	2.2000e-004	6.9000e-004	4.6652
Worker	0.0125	4.7700e-003	0.0493	4.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.5942	3.5942	1.1600e-003	6.1000e-004	3.8053
Total	0.0138	0.0291	0.0656	8.0000e-005	2.5100e-003	1.1000e-004	2.6200e-003	6.9000e-004	1.0000e-004	7.9000e-004		8.0491	8.0491	1.3800e-003	1.3000e-003	8.4705

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8782	10.1586	5.9264	0.0173		0.3806	0.3806		0.3501	0.3501	0.0000	1,678.7135	1,678.7135	0.5429		1,692.2867
Total	0.8782	10.1586	5.9264	0.0173	0.2386	0.3806	0.6192	0.0258	0.3501	0.3759	0.0000	1,678.7135	1,678.7135	0.5429		1,692.2867

Buena Billboard Project - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2700e-003	0.0243	0.0164	4.0000e-005	5.1000e-004	5.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.0000e-004		4.4549	4.4549	2.2000e-004	6.9000e-004	4.6652
Worker	0.0125	4.7700e-003	0.0493	4.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.5942	3.5942	1.1600e-003	6.1000e-004	3.8053
Total	0.0138	0.0291	0.0656	8.0000e-005	2.5100e-003	1.1000e-004	2.6200e-003	6.9000e-004	1.0000e-004	7.9000e-004		8.0491	8.0491	1.3800e-003	1.3000e-003	8.4705

3.3 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					5.3145	0.0000	5.3145	2.5690	0.0000	2.5690			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759		1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	5.3145	0.5173	5.8318	2.5690	0.4759	3.0449		1,364.8198	1,364.8198	0.4414		1,375.8551

Buena Billboard Project - Orange County, Summer

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0324	1.2455	0.3499	4.7700e-003	0.1395	9.4200e-003	0.1490	0.0382	9.0200e-003	0.0472		540.8771	540.8771	0.0516	0.0866	567.9814
Vendor	1.2700e-003	0.0243	0.0164	4.0000e-005	5.1000e-004	5.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.0000e-004		4.4549	4.4549	2.2000e-004	6.9000e-004	4.6652
Worker	9.9900e-003	3.8200e-003	0.0394	3.0000e-005	1.6000e-003	5.0000e-005	1.6400e-003	4.3000e-004	4.0000e-005	4.8000e-004		2.8754	2.8754	9.2000e-004	4.9000e-004	3.0442
Total	0.0437	1.2737	0.4056	4.8400e-003	0.1416	9.5200e-003	0.1512	0.0388	9.1100e-003	0.0479		548.2074	548.2074	0.0527	0.0878	575.6908

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3915	0.0000	2.3915	1.1560	0.0000	1.1560			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	2.3915	0.5173	2.9088	1.1560	0.4759	1.6319	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551

Buena Billboard Project - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0324	1.2455	0.3499	4.7700e-003	0.1395	9.4200e-003	0.1490	0.0382	9.0200e-003	0.0472		540.8771	540.8771	0.0516	0.0866	567.9814
Vendor	1.2700e-003	0.0243	0.0164	4.0000e-005	5.1000e-004	5.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.0000e-004		4.4549	4.4549	2.2000e-004	6.9000e-004	4.6652
Worker	9.9900e-003	3.8200e-003	0.0394	3.0000e-005	1.6000e-003	5.0000e-005	1.6400e-003	4.3000e-004	4.0000e-005	4.8000e-004		2.8754	2.8754	9.2000e-004	4.9000e-004	3.0442
Total	0.0437	1.2737	0.4056	4.8400e-003	0.1416	9.5200e-003	0.1512	0.0388	9.1100e-003	0.0479		548.2074	548.2074	0.0527	0.0878	575.6908

3.4 Utility Line Trenching - 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	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102		163.4747	163.4747	0.0529		164.7965
Total	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102		163.4747	163.4747	0.0529		164.7965

Buena Billboard Project - Orange County, Summer

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7500e-003	1.4300e-003	0.0148	1.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.6000e-004	2.0000e-005	1.8000e-004		1.0783	1.0783	3.5000e-004	1.8000e-004	1.1416
Total	3.7500e-003	1.4300e-003	0.0148	1.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.6000e-004	2.0000e-005	1.8000e-004		1.0783	1.0783	3.5000e-004	1.8000e-004	1.1416

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102	0.0000	163.4747	163.4747	0.0529		164.7965
Total	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102	0.0000	163.4747	163.4747	0.0529		164.7965

Buena Billboard Project - Orange County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7500e-003	1.4300e-003	0.0148	1.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.6000e-004	2.0000e-005	1.8000e-004		1.0783	1.0783	3.5000e-004	1.8000e-004	1.1416
Total	3.7500e-003	1.4300e-003	0.0148	1.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.6000e-004	2.0000e-005	1.8000e-004		1.0783	1.0783	3.5000e-004	1.8000e-004	1.1416

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221		1,383.3545	1,383.3545	0.4474		1,394.5396
Total	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221		1,383.3545	1,383.3545	0.4474		1,394.5396

Buena Billboard Project - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2700e-003	0.0243	0.0164	4.0000e-005	5.1000e-004	5.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.0000e-004		4.4549	4.4549	2.2000e-004	6.9000e-004	4.6652
Worker	0.0125	4.7700e-003	0.0493	4.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.5942	3.5942	1.1600e-003	6.1000e-004	3.8053
Total	0.0138	0.0291	0.0656	8.0000e-005	2.5100e-003	1.1000e-004	2.6200e-003	6.9000e-004	1.0000e-004	7.9000e-004		8.0491	8.0491	1.3800e-003	1.3000e-003	8.4705

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221	0.0000	1,383.3545	1,383.3545	0.4474		1,394.5396
Total	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221	0.0000	1,383.3545	1,383.3545	0.4474		1,394.5396

Buena Billboard Project - Orange County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2700e-003	0.0243	0.0164	4.0000e-005	5.1000e-004	5.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.0000e-004		4.4549	4.4549	2.2000e-004	6.9000e-004	4.6652
Worker	0.0125	4.7700e-003	0.0493	4.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.5942	3.5942	1.1600e-003	6.1000e-004	3.8053
Total	0.0138	0.0291	0.0656	8.0000e-005	2.5100e-003	1.1000e-004	2.6200e-003	6.9000e-004	1.0000e-004	7.9000e-004		8.0491	8.0491	1.3800e-003	1.3000e-003	8.4705

3.6 Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.9038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.9505	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014		1,399.1088	1,399.1088	0.3798		1,408.6037
Total	1.8543	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014		1,399.1088	1,399.1088	0.3798		1,408.6037

Buena Billboard Project - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2700e-003	0.0243	0.0164	4.0000e-005	5.1000e-004	5.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.0000e-004		4.4549	4.4549	2.2000e-004	6.9000e-004	4.6652
Worker	0.0125	4.7700e-003	0.0493	4.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.5942	3.5942	1.1600e-003	6.1000e-004	3.8053
Total	0.0138	0.0291	0.0656	8.0000e-005	2.5100e-003	1.1000e-004	2.6200e-003	6.9000e-004	1.0000e-004	7.9000e-004		8.0491	8.0491	1.3800e-003	1.3000e-003	8.4705

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.9505	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014	0.0000	1,399.1088	1,399.1088	0.3798		1,408.6037
Total	1.8543	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014	0.0000	1,399.1088	1,399.1088	0.3798		1,408.6037

Buena Billboard Project - Orange County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2700e-003	0.0243	0.0164	4.0000e-005	5.1000e-004	5.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.0000e-004		4.4549	4.4549	2.2000e-004	6.9000e-004	4.6652
Worker	0.0125	4.7700e-003	0.0493	4.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.5942	3.5942	1.1600e-003	6.1000e-004	3.8053
Total	0.0138	0.0291	0.0656	8.0000e-005	2.5100e-003	1.1000e-004	2.6200e-003	6.9000e-004	1.0000e-004	7.9000e-004		8.0491	8.0491	1.3800e-003	1.3000e-003	8.4705

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

Buena Billboard Project - Orange County, Summer

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

Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
-------------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.542853	0.058126	0.187899	0.130925	0.024443	0.006426	0.014590	0.004841	0.000666	0.000390	0.024092	0.000735	0.004015

5.0 Energy Detail

Buena Billboard Project - Orange County, Summer

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

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

	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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Buena Billboard Project - Orange County, Summer

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

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Buena Billboard Project - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.5000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Buena Billboard Project - Orange County, Summer

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

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Buena Billboard Project - Orange County, Summer

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

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

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

Equipment Type	Number
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11.0 Vegetation

Buena Billboard Project - Orange County, Winter

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

**Buena Billboard Project
Orange County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.10	97.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on applicant's input, the total disturbed area would be 97 square feet and the lot acreage was set to be an conservative value of 0.1 acre.

Construction Phase - Based on applicant's input, the construction schedule would start in 6/1/2022 and conclude in 6/10/2022. Utility Line Trenching was added as one of the phases.

Off-road Equipment - Based on applicant's input.

Off-road Equipment - Based on applicant's input, cranes were added to reflect the coating needed for the LED billboards.

Off-road Equipment -

Off-road Equipment - Based on applicant's input, the drill rig and crane were added to site preparation activity.

Off-road Equipment - Trenching is needed based on the applicant.

Off-road Equipment - Based on applicant's input, a trencher was added to reflect the Utility Trenching activity.

Trips and VMT - The Worker Trips, Vendor Trips, and Hauling Trips were added to reflect the construction activities and a conservative estimate of emissions.

Grading - Based on applicant's input, 23 cubic yards to materials would be exported.

Architectural Coating -

Buena Billboard Project - Orange County, Winter

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

Construction Off-road Equipment Mitigation -

Area Coating -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	NumDays	100.00	2.00
tblConstructionPhase	NumDays	2.00	1.00
tblGrading	MaterialExported	0.00	23.00
tblLandUse	LandUseSquareFeet	0.00	97.00
tblLandUse	LotAcreage	0.00	0.10
tblOffRoadEquipment	UsageHours	4.00	8.00
tblTripsAndVMT	HaulingTripNumber	3.00	8.00
tblTripsAndVMT	VendorTripLength	6.90	0.25
tblTripsAndVMT	VendorTripLength	6.90	0.25
tblTripsAndVMT	VendorTripLength	6.90	0.25
tblTripsAndVMT	VendorTripLength	6.90	0.25
tblTripsAndVMT	VendorTripLength	6.90	0.25
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.25
tblTripsAndVMT	WorkerTripLength	14.70	0.25
tblTripsAndVMT	WorkerTripLength	14.70	0.25
tblTripsAndVMT	WorkerTripLength	14.70	0.25
tblTripsAndVMT	WorkerTripLength	14.70	0.25
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00

Buena Billboard Project - Orange County, Winter

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

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	1.8677	13.3286	8.1733	0.0189	5.4562	0.5268	5.9830	2.6077	0.4850	3.0928	0.0000	1,913.0917	1,913.0917	0.5444	0.0879	1,951.6288
Maximum	1.8677	13.3286	8.1733	0.0189	5.4562	0.5268	5.9830	2.6077	0.4850	3.0928	0.0000	1,913.0917	1,913.0917	0.5444	0.0879	1,951.6288

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	1.8677	13.3286	8.1733	0.0189	2.5332	0.5268	3.0600	1.1948	0.4850	1.6799	0.0000	1,913.0917	1,913.0917	0.5444	0.0879	1,951.6288
Maximum	1.8677	13.3286	8.1733	0.0189	2.5332	0.5268	3.0600	1.1948	0.4850	1.6799	0.0000	1,913.0917	1,913.0917	0.5444	0.0879	1,951.6288

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Appendix A																

Buena Billboard Project - Orange County, Winter

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

Percent Reduction	0.00	0.00	0.00	0.00	53.57	0.00	48.86	54.18	0.00	45.68	0.00	0.00	0.00	0.00	0.00	0.00
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1800e-003	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Buena Billboard Project - Orange County, Winter

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

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1800e-003	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/1/2022	5	1	
2	Grading	Grading	6/2/2022	6/2/2022	5	1	
3	Utility Line Trenching	Trenching	6/3/2022	6/3/2022	5	1	
4	Building Construction	Building Construction	6/8/2022	6/9/2022	5	2	
5	Coating Appendix A	Architectural Coating	6/10/2022	6/10/2022	5	1	

Buena Billboard Project - Orange County, Winter

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

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0.75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 146; Non-Residential Outdoor: 49; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Bore/Drill Rigs	1	4.00	221	0.50
Site Preparation	Cranes	1	4.00	231	0.29
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
Utility Line Trenching	Trenchers	1	4.00	78	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Coating	Air Compressors	1	6.00	78	0.48
Coating	Cranes	2	8.00	231	0.29

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	4	10.00	2.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	2.00	8.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT
Utility Line Trenching	1	3.00	0.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT

Buena Billboard Project - Orange County, Winter

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

Building Construction	5	10.00	2.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT
Coating	3	10.00	2.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.8782	10.1586	5.9264	0.0173		0.3806	0.3806		0.3501	0.3501		1,678.7135	1,678.7135	0.5429		1,692.2867
Total	0.8782	10.1586	5.9264	0.0173	0.5303	0.3806	0.9108	0.0573	0.3501	0.4074		1,678.7135	1,678.7135	0.5429		1,692.2867

Buena Billboard Project - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1800e-003	0.0254	0.0176	4.0000e-005	5.1000e-004	6.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.1000e-004		4.4680	4.4680	2.1000e-004	6.9000e-004	4.6791
Worker	0.0122	5.2200e-003	0.0568	3.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.4977	3.4977	1.3000e-003	6.5000e-004	3.7238
Total	0.0134	0.0306	0.0744	7.0000e-005	2.5100e-003	1.2000e-004	2.6200e-003	6.9000e-004	1.0000e-004	8.0000e-004		7.9658	7.9658	1.5100e-003	1.3400e-003	8.4029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8782	10.1586	5.9264	0.0173		0.3806	0.3806		0.3501	0.3501	0.0000	1,678.7135	1,678.7135	0.5429		1,692.2867
Total	0.8782	10.1586	5.9264	0.0173	0.2386	0.3806	0.6192	0.0258	0.3501	0.3759	0.0000	1,678.7135	1,678.7135	0.5429		1,692.2867

Buena Billboard Project - Orange County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1800e-003	0.0254	0.0176	4.0000e-005	5.1000e-004	6.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.1000e-004		4.4680	4.4680	2.1000e-004	6.9000e-004	4.6791
Worker	0.0122	5.2200e-003	0.0568	3.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.4977	3.4977	1.3000e-003	6.5000e-004	3.7238
Total	0.0134	0.0306	0.0744	7.0000e-005	2.5100e-003	1.2000e-004	2.6200e-003	6.9000e-004	1.0000e-004	8.0000e-004		7.9658	7.9658	1.5100e-003	1.3400e-003	8.4029

3.3 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					5.3145	0.0000	5.3145	2.5690	0.0000	2.5690			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759		1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	5.3145	0.5173	5.8318	2.5690	0.4759	3.0449		1,364.8198	1,364.8198	0.4414		1,375.8551

Buena Billboard Project - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0316	1.2945	0.3550	4.7800e-003	0.1395	9.4400e-003	0.1490	0.0382	9.0400e-003	0.0472		541.0056	541.0056	0.0515	0.0867	568.1156
Vendor	1.1800e-003	0.0254	0.0176	4.0000e-005	5.1000e-004	6.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.1000e-004		4.4680	4.4680	2.1000e-004	6.9000e-004	4.6791
Worker	9.7400e-003	4.1700e-003	0.0455	3.0000e-005	1.6000e-003	5.0000e-005	1.6400e-003	4.3000e-004	4.0000e-005	4.8000e-004		2.7982	2.7982	1.0400e-003	5.2000e-004	2.9790
Total	0.0425	1.3240	0.4180	4.8500e-003	0.1416	9.5500e-003	0.1512	0.0388	9.1300e-003	0.0479		548.2719	548.2719	0.0528	0.0879	575.7737

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3915	0.0000	2.3915	1.1560	0.0000	1.1560			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	2.3915	0.5173	2.9088	1.1560	0.4759	1.6319	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551

Buena Billboard Project - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0316	1.2945	0.3550	4.7800e-003	0.1395	9.4400e-003	0.1490	0.0382	9.0400e-003	0.0472		541.0056	541.0056	0.0515	0.0867	568.1156
Vendor	1.1800e-003	0.0254	0.0176	4.0000e-005	5.1000e-004	6.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.1000e-004		4.4680	4.4680	2.1000e-004	6.9000e-004	4.6791
Worker	9.7400e-003	4.1700e-003	0.0455	3.0000e-005	1.6000e-003	5.0000e-005	1.6400e-003	4.3000e-004	4.0000e-005	4.8000e-004		2.7982	2.7982	1.0400e-003	5.2000e-004	2.9790
Total	0.0425	1.3240	0.4180	4.8500e-003	0.1416	9.5500e-003	0.1512	0.0388	9.1300e-003	0.0479		548.2719	548.2719	0.0528	0.0879	575.7737

3.4 Utility Line Trenching - 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	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102		163.4747	163.4747	0.0529		164.7965
Total	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102		163.4747	163.4747	0.0529		164.7965

Buena Billboard Project - Orange County, Winter

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6500e-003	1.5600e-003	0.0171	1.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.6000e-004	2.0000e-005	1.8000e-004		1.0493	1.0493	3.9000e-004	1.9000e-004	1.1171
Total	3.6500e-003	1.5600e-003	0.0171	1.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.6000e-004	2.0000e-005	1.8000e-004		1.0493	1.0493	3.9000e-004	1.9000e-004	1.1171

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102	0.0000	163.4747	163.4747	0.0529		164.7965
Total	0.1819	1.6898	1.2995	1.6900e-003		0.1197	0.1197		0.1102	0.1102	0.0000	163.4747	163.4747	0.0529		164.7965

Buena Billboard Project - Orange County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6500e-003	1.5600e-003	0.0171	1.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.6000e-004	2.0000e-005	1.8000e-004		1.0493	1.0493	3.9000e-004	1.9000e-004	1.1171
Total	3.6500e-003	1.5600e-003	0.0171	1.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.6000e-004	2.0000e-005	1.8000e-004		1.0493	1.0493	3.9000e-004	1.9000e-004	1.1171

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221		1,383.3545	1,383.3545	0.4474		1,394.5396
Total	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221		1,383.3545	1,383.3545	0.4474		1,394.5396

Buena Billboard Project - Orange County, Winter

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1800e-003	0.0254	0.0176	4.0000e-005	5.1000e-004	6.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.1000e-004		4.4680	4.4680	2.1000e-004	6.9000e-004	4.6791
Worker	0.0122	5.2200e-003	0.0568	3.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.4977	3.4977	1.3000e-003	6.5000e-004	3.7238
Total	0.0134	0.0306	0.0744	7.0000e-005	2.5100e-003	1.2000e-004	2.6200e-003	6.9000e-004	1.0000e-004	8.0000e-004		7.9658	7.9658	1.5100e-003	1.3400e-003	8.4029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221	0.0000	1,383.3545	1,383.3545	0.4474		1,394.5396
Total	0.8728	9.1179	8.0988	0.0143		0.4588	0.4588		0.4221	0.4221	0.0000	1,383.3545	1,383.3545	0.4474		1,394.5396

Buena Billboard Project - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1800e-003	0.0254	0.0176	4.0000e-005	5.1000e-004	6.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.1000e-004		4.4680	4.4680	2.1000e-004	6.9000e-004	4.6791
Worker	0.0122	5.2200e-003	0.0568	3.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.4977	3.4977	1.3000e-003	6.5000e-004	3.7238
Total	0.0134	0.0306	0.0744	7.0000e-005	2.5100e-003	1.2000e-004	2.6200e-003	6.9000e-004	1.0000e-004	8.0000e-004		7.9658	7.9658	1.5100e-003	1.3400e-003	8.4029

3.6 Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.9038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.9505	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014		1,399.1088	1,399.1088	0.3798		1,408.6037
Total	1.8543	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014		1,399.1088	1,399.1088	0.3798		1,408.6037

Buena Billboard Project - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1800e-003	0.0254	0.0176	4.0000e-005	5.1000e-004	6.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.1000e-004		4.4680	4.4680	2.1000e-004	6.9000e-004	4.6791
Worker	0.0122	5.2200e-003	0.0568	3.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.4977	3.4977	1.3000e-003	6.5000e-004	3.7238
Total	0.0134	0.0306	0.0744	7.0000e-005	2.5100e-003	1.2000e-004	2.6200e-003	6.9000e-004	1.0000e-004	8.0000e-004		7.9658	7.9658	1.5100e-003	1.3400e-003	8.4029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.9505	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014	0.0000	1,399.1088	1,399.1088	0.3798		1,408.6037
Total	1.8543	9.7770	5.5983	0.0145		0.4292	0.4292		0.4014	0.4014	0.0000	1,399.1088	1,399.1088	0.3798		1,408.6037

Buena Billboard Project - Orange County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1800e-003	0.0254	0.0176	4.0000e-005	5.1000e-004	6.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.1000e-004		4.4680	4.4680	2.1000e-004	6.9000e-004	4.6791
Worker	0.0122	5.2200e-003	0.0568	3.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	5.9000e-004		3.4977	3.4977	1.3000e-003	6.5000e-004	3.7238
Total	0.0134	0.0306	0.0744	7.0000e-005	2.5100e-003	1.2000e-004	2.6200e-003	6.9000e-004	1.0000e-004	8.0000e-004		7.9658	7.9658	1.5100e-003	1.3400e-003	8.4029

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

Buena Billboard Project - Orange County, Winter

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

Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.542853	0.058126	0.187899	0.130925	0.024443	0.006426	0.014590	0.004841	0.000666	0.000390	0.024092	0.000735	0.004015

5.0 Energy Detail

Buena Billboard Project - Orange County, Winter

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

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

	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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Buena Billboard Project - Orange County, Winter

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

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Buena Billboard Project - Orange County, Winter

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Buena Billboard Project - Orange County, Winter

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

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	2.1800e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Buena Billboard Project - Orange County, Winter

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

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

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

Equipment Type	Number
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11.0 Vegetation

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

**Buena Park Billboard Project
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.72	1000sqft	0.02	720.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase -

Off-road Equipment - Trenching is needed based on the applicant.

Trips and VMT - Note 3

Grading - Note

Construction Off-road Equipment Mitigation -

Off-road Equipment - Architectural Coating

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	3.8500e-003	3.5200e-003	4.5300e-003	1.0000e-005	0.0000	2.0000e-004	2.0000e-004	0.0000	2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Maximum	3.8500e-003	3.5200e-003	4.5300e-003	1.0000e-005	0.0000	2.0000e-004	2.0000e-004	0.0000	2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

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	3.8500e-003	3.5200e-003	4.5300e-003	1.0000e-005	0.0000	2.0000e-004	2.0000e-004	0.0000	2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Maximum	3.8500e-003	3.5200e-003	4.5300e-003	1.0000e-005	0.0000	2.0000e-004	2.0000e-004	0.0000	2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

	ROG	NOx	CO	SO2	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

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.0074	0.0074
		Highest	0.0074	0.0074

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	2.9400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	4.0000e-005	3.2000e-004	2.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	2.0702	2.0702	1.5000e-004	2.0000e-005	2.0812
Mobile	2.6700e-003	3.3300e-003	0.0275	6.0000e-005	6.4400e-003	5.0000e-005	6.4900e-003	1.7200e-003	5.0000e-005	1.7700e-003	0.0000	5.7440	5.7440	3.6000e-004	2.5000e-004	5.8269
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.4500	0.4906	4.2100e-003	1.0000e-004	0.6266
Total	5.6500e-003	3.6500e-003	0.0278	6.0000e-005	6.4400e-003	7.0000e-005	6.5100e-003	1.7200e-003	7.0000e-005	1.7900e-003	0.1766	8.2643	8.4409	0.0128	3.7000e-004	8.8716

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.9400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	4.0000e-005	3.2000e-004	2.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	2.0702	2.0702	1.5000e-004	2.0000e-005	2.0812
Mobile	2.6700e-003	3.3300e-003	0.0275	6.0000e-005	6.4400e-003	5.0000e-005	6.4900e-003	1.7200e-003	5.0000e-005	1.7700e-003	0.0000	5.7440	5.7440	3.6000e-004	2.5000e-004	5.8269
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.4500	0.4906	4.2100e-003	1.0000e-004	0.6266
Total	5.6500e-003	3.6500e-003	0.0278	6.0000e-005	6.4400e-003	7.0000e-005	6.5100e-003	1.7200e-003	7.0000e-005	1.7900e-003	0.1766	8.2643	8.4409	0.0128	3.7000e-004	8.8716

	ROG	NOx	CO	SO2	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	Coating	Architectural Coating	6/1/2022	6/7/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,080; Non-Residential Outdoor: 360; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3400e-003					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	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	3.8500e-003	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Buena Park Billboard Project Construction Trailer - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.3400e-003					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	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	3.8500e-003	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6700e-003	3.3300e-003	0.0275	6.0000e-005	6.4400e-003	5.0000e-005	6.4900e-003	1.7200e-003	5.0000e-005	1.7700e-003	0.0000	5.7440	5.7440	3.6000e-004	2.5000e-004	5.8269
Unmitigated	2.6700e-003	3.3300e-003	0.0275	6.0000e-005	6.4400e-003	5.0000e-005	6.4900e-003	1.7200e-003	5.0000e-005	1.7700e-003	0.0000	5.7440	5.7440	3.6000e-004	2.5000e-004	5.8269

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	7.01	1.59	0.50	17,101	17,101
Total	7.01	1.59	0.50	17,101	17,101

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS
Appendix A												

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

General Office Building	0.542853	0.058126	0.187899	0.130925	0.024443	0.006426	0.014590	0.004841	0.000666	0.000390	0.024092	0.000735	0.004015
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.7225	1.7225	1.5000e-004	2.0000e-005	1.7314
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.7225	1.7225	1.5000e-004	2.0000e-005	1.7314
NaturalGas Mitigated	4.0000e-005	3.2000e-004	2.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3477	0.3477	1.0000e-005	1.0000e-005	0.3498
NaturalGas Unmitigated	4.0000e-005	3.2000e-004	2.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3477	0.3477	1.0000e-005	1.0000e-005	0.3498

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	6516	4.0000e-005	3.2000e-004	2.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3477	0.3477	1.0000e-005	1.0000e-005	0.3498
Total		4.0000e-005	3.2000e-004	2.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3477	0.3477	1.0000e-005	1.0000e-005	0.3498

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	6516	4.0000e-005	3.2000e-004	2.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3477	0.3477	1.0000e-005	1.0000e-005	0.3498
Total		4.0000e-005	3.2000e-004	2.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3477	0.3477	1.0000e-005	1.0000e-005	0.3498

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	9712.8		1.7225	1.5000e-004	2.0000e-005	1.7314
Total			1.7225	1.5000e-004	2.0000e-005	1.7314

Mitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	9712.8		1.7225	1.5000e-004	2.0000e-005	1.7314
Total			1.7225	1.5000e-004	2.0000e-005	1.7314

6.0 Area Detail

6.1 Mitigation Measures Area

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.9400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	2.9400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	2.9300e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	2.9300e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

7.0 Water Detail

7.1 Mitigation Measures Water

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		0.4906	4.2100e-003	1.0000e-004	0.6266
Unmitigated		0.4906	4.2100e-003	1.0000e-004	0.6266

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
General Office Building	0.127968 / 0.0784322		0.4906	4.2100e-003	1.0000e-004	0.6266
Total			0.4906	4.2100e-003	1.0000e-004	0.6266

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

Mitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
General Office Building	0.127968 / 0.0784322		0.4906	4.2100e-003	1.0000e-004	0.6266
Total			0.4906	4.2100e-003	1.0000e-004	0.6266

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		0.1360	8.0400e-003	0.0000	0.3369
Unmitigated		0.1360	8.0400e-003	0.0000	0.3369

Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
General Office Building	0.67		0.1360	8.0400e-003	0.0000	0.3369
Total			0.1360	8.0400e-003	0.0000	0.3369

Mitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
General Office Building	0.67		0.1360	8.0400e-003	0.0000	0.3369
Total			0.1360	8.0400e-003	0.0000	0.3369

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Buena Park Billboard Project Construction Trailer - Orange County, Annual

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
