

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	164.00	Dwelling Unit	4.00	43,104.00	492

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - West Coast Tomato Growers (08130.00002.001)

Land Use - Based on 492 workers, divided by 3

Construction Phase - Based on timeline provided by applicant.

Grading - 6,200 CY of cut and 5,200 CY of fill resulting in 1,000 cubic yards of export.

Vehicle Trips - Trip rates based on 150 ADT from LLG trip generation memo, and 164 dwelling units used in this analysis.

Construction Off-road Equipment Mitigation -

Woodstoves - No woodstoves or fireplaces.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	174.00

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

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tblConstructionPhase	NumDays	8.00	43.00
tblConstructionPhase	NumDays	5.00	22.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	90.20	0.00
tblFireplaces	NumberNoFireplace	16.40	0.00
tblFireplaces	NumberWood	57.40	0.00
tblGrading	MaterialExported	0.00	1,000.00
tblLandUse	LandUseSquareFeet	164,000.00	43,104.00
tblLandUse	LotAcreage	10.25	4.00
tblLandUse	Population	469.00	492.00
tblVehicleTrips	ST_TR	8.14	0.92
tblVehicleTrips	SU_TR	6.28	0.92
tblVehicleTrips	WD_TR	7.32	0.92
tblWoodstoves	NumberCatalytic	8.20	0.00
tblWoodstoves	NumberNoncatalytic	8.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2340	2.0381	2.2036	4.5100e-003	0.4665	0.0924	0.5590	0.2111	0.0863	0.2974	0.0000	398.1157	398.1157	0.0812	7.0600e-003	402.2484
Maximum	0.2340	2.0381	2.2036	4.5100e-003	0.4665	0.0924	0.5590	0.2111	0.0863	0.2974	0.0000	398.1157	398.1157	0.0812	7.0600e-003	402.2484

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2340	2.0381	2.2036	4.5100e-003	0.2638	0.0924	0.3562	0.1094	0.0863	0.1958	0.0000	398.1153	398.1153	0.0812	7.0600e-003	402.2481
Maximum	0.2340	2.0381	2.2036	4.5100e-003	0.2638	0.0924	0.3562	0.1094	0.0863	0.1958	0.0000	398.1153	398.1153	0.0812	7.0600e-003	402.2481

	ROG	NOx	CO	SO2	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	43.45	0.00	36.27	48.15	0.00	34.17	0.00	0.00	0.00	0.00	0.00	0.00

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	0.7591	0.7591
2	4-1-2023	6-30-2023	0.5614	0.5614
3	7-1-2023	9-30-2023	0.5676	0.5676
		Highest	0.7591	0.7591

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2724	0.0140	1.2172	6.0000e-005		6.7500e-003	6.7500e-003		6.7500e-003	6.7500e-003	0.0000	1.9891	1.9891	1.9100e-003	0.0000	2.0368
Energy	9.6300e-003	0.0823	0.0350	5.3000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	257.5720	257.5720	0.0117	2.9500e-003	258.7446
Mobile	0.0759	0.0861	0.7136	1.5100e-003	0.1612	1.1800e-003	0.1623	0.0430	1.1000e-003	0.0441	0.0000	139.5183	139.5183	9.9800e-003	6.3500e-003	141.6615
Waste						0.0000	0.0000		0.0000	0.0000	15.3136	0.0000	15.3136	0.9050	0.0000	37.9389
Water						0.0000	0.0000		0.0000	0.0000	3.3899	52.4088	55.7987	0.3514	8.6100e-003	67.1489
Total	0.3579	0.1825	1.9658	2.1000e-003	0.1612	0.0146	0.1757	0.0430	0.0145	0.0575	18.7036	451.4882	470.1917	1.2800	0.0179	507.5307

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2724	0.0140	1.2172	6.0000e-005		6.7500e-003	6.7500e-003		6.7500e-003	6.7500e-003	0.0000	1.9891	1.9891	1.9100e-003	0.0000	2.0368
Energy	9.6300e-003	0.0823	0.0350	5.3000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	257.5720	257.5720	0.0117	2.9500e-003	258.7446
Mobile	0.0759	0.0861	0.7136	1.5100e-003	0.1612	1.1800e-003	0.1623	0.0430	1.1000e-003	0.0441	0.0000	139.5183	139.5183	9.9800e-003	6.3500e-003	141.6615
Waste						0.0000	0.0000		0.0000	0.0000	15.3136	0.0000	15.3136	0.9050	0.0000	37.9389
Water						0.0000	0.0000		0.0000	0.0000	3.3899	52.4088	55.7987	0.3514	8.6100e-003	67.1489
Total	0.3579	0.1825	1.9658	2.1000e-003	0.1612	0.0146	0.1757	0.0430	0.0145	0.0575	18.7036	451.4882	470.1917	1.2800	0.0179	507.5307

	ROG	NOx	CO	SO2	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	1/1/2023	1/31/2023	5	22	
2	Grading	Grading	2/1/2023	3/31/2023	5	43	
3	Building Construction	Building Construction	4/1/2023	11/30/2023	5	174	

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	118.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2162	0.0000	0.2162	0.1111	0.0000	0.1111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.3028	0.2007	4.2000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	36.7958	36.7958	0.0119	0.0000	37.0933
Total	0.0293	0.3028	0.2007	4.2000e-004	0.2162	0.0139	0.2302	0.1111	0.0128	0.1239	0.0000	36.7958	36.7958	0.0119	0.0000	37.0933

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.5100e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2564	1.2564	4.0000e-005	4.0000e-005	1.2678
Total	5.4000e-004	3.7000e-004	4.5100e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2564	1.2564	4.0000e-005	4.0000e-005	1.2678

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0973	0.0000	0.0973	0.0500	0.0000	0.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.3028	0.2007	4.2000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	36.7957	36.7957	0.0119	0.0000	37.0932
Total	0.0293	0.3028	0.2007	4.2000e-004	0.0973	0.0139	0.1112	0.0500	0.0128	0.0628	0.0000	36.7957	36.7957	0.0119	0.0000	37.0932

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.5100e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2564	1.2564	4.0000e-005	4.0000e-005	1.2678
Total	5.4000e-004	3.7000e-004	4.5100e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2564	1.2564	4.0000e-005	4.0000e-005	1.2678

3.3 Grading - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1524	0.0000	0.1524	0.0736	0.0000	0.0736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0368	0.3856	0.3171	6.4000e-004		0.0167	0.0167		0.0153	0.0153	0.0000	56.0303	56.0303	0.0181	0.0000	56.4834
Total	0.0368	0.3856	0.3171	6.4000e-004	0.1524	0.0167	0.1690	0.0736	0.0153	0.0890	0.0000	56.0303	56.0303	0.0181	0.0000	56.4834

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	8.4800e-003	2.2600e-003	4.0000e-005	1.0700e-003	7.0000e-005	1.1400e-003	2.9000e-004	7.0000e-005	3.6000e-004	0.0000	3.7509	3.7509	1.9000e-004	6.0000e-004	3.9334
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	6.0000e-004	7.3500e-003	2.0000e-005	2.5900e-003	1.0000e-005	2.6000e-003	6.9000e-004	1.0000e-005	7.0000e-004	0.0000	2.0465	2.0465	6.0000e-005	6.0000e-005	2.0650
Total	1.0100e-003	9.0800e-003	9.6100e-003	6.0000e-005	3.6600e-003	8.0000e-005	3.7400e-003	9.8000e-004	8.0000e-005	1.0600e-003	0.0000	5.7974	5.7974	2.5000e-004	6.6000e-004	5.9984

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0686	0.0000	0.0686	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0368	0.3856	0.3171	6.4000e-004		0.0167	0.0167		0.0153	0.0153	0.0000	56.0303	56.0303	0.0181	0.0000	56.4833
Total	0.0368	0.3856	0.3171	6.4000e-004	0.0686	0.0167	0.0852	0.0331	0.0153	0.0485	0.0000	56.0303	56.0303	0.0181	0.0000	56.4833

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

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	8.4800e-003	2.2600e-003	4.0000e-005	1.0700e-003	7.0000e-005	1.1400e-003	2.9000e-004	7.0000e-005	3.6000e-004	0.0000	3.7509	3.7509	1.9000e-004	6.0000e-004	3.9334
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	6.0000e-004	7.3500e-003	2.0000e-005	2.5900e-003	1.0000e-005	2.6000e-003	6.9000e-004	1.0000e-005	7.0000e-004	0.0000	2.0465	2.0465	6.0000e-005	6.0000e-005	2.0650
Total	1.0100e-003	9.0800e-003	9.6100e-003	6.0000e-005	3.6600e-003	8.0000e-005	3.7400e-003	9.8000e-004	8.0000e-005	1.0600e-003	0.0000	5.7974	5.7974	2.5000e-004	6.6000e-004	5.9984

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1368	1.2515	1.4132	2.3400e-003		0.0609	0.0609		0.0573	0.0573	0.0000	201.6701	201.6701	0.0480	0.0000	202.8695
Total	0.1368	1.2515	1.4132	2.3400e-003		0.0609	0.0609		0.0573	0.0573	0.0000	201.6701	201.6701	0.0480	0.0000	202.8695

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8400e-003	0.0695	0.0245	3.2000e-004	0.0104	4.1000e-004	0.0108	3.0000e-003	3.9000e-004	3.3900e-003	0.0000	31.4219	31.4219	9.5000e-004	4.5500e-003	32.8024
Worker	0.0278	0.0192	0.2340	7.1000e-004	0.0823	4.5000e-004	0.0828	0.0219	4.2000e-004	0.0223	0.0000	65.1438	65.1438	1.9300e-003	1.8200e-003	65.7337
Total	0.0296	0.0887	0.2585	1.0300e-003	0.0927	8.6000e-004	0.0936	0.0249	8.1000e-004	0.0257	0.0000	96.5657	96.5657	2.8800e-003	6.3700e-003	98.5361

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1368	1.2515	1.4132	2.3400e-003		0.0609	0.0609		0.0573	0.0573	0.0000	201.6699	201.6699	0.0480	0.0000	202.8692
Total	0.1368	1.2515	1.4132	2.3400e-003		0.0609	0.0609		0.0573	0.0573	0.0000	201.6699	201.6699	0.0480	0.0000	202.8692

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.4 Building Construction - 2023****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8400e-003	0.0695	0.0245	3.2000e-004	0.0104	4.1000e-004	0.0108	3.0000e-003	3.9000e-004	3.3900e-003	0.0000	31.4219	31.4219	9.5000e-004	4.5500e-003	32.8024
Worker	0.0278	0.0192	0.2340	7.1000e-004	0.0823	4.5000e-004	0.0828	0.0219	4.2000e-004	0.0223	0.0000	65.1438	65.1438	1.9300e-003	1.8200e-003	65.7337
Total	0.0296	0.0887	0.2585	1.0300e-003	0.0927	8.6000e-004	0.0936	0.0249	8.1000e-004	0.0257	0.0000	96.5657	96.5657	2.8800e-003	6.3700e-003	98.5361

West Coast Tomato Growers (08130.00002.001) - San Diego 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	0.0759	0.0861	0.7136	1.5100e-003	0.1612	1.1800e-003	0.1623	0.0430	1.1000e-003	0.0441	0.0000	139.5183	139.5183	9.9800e-003	6.3500e-003	141.6615
Unmitigated	0.0759	0.0861	0.7136	1.5100e-003	0.1612	1.1800e-003	0.1623	0.0430	1.1000e-003	0.0441	0.0000	139.5183	139.5183	9.9800e-003	6.3500e-003	141.6615

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	150.88	150.88	150.88	430,808	430,808
Total	150.88	150.88	150.88	430,808	430,808

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

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

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	162.2283	162.2283	9.9100e-003	1.2000e-003	162.8343
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	162.2283	162.2283	9.9100e-003	1.2000e-003	162.8343
NaturalGas Mitigated	9.6300e-003	0.0823	0.0350	5.3000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	95.3437	95.3437	1.8300e-003	1.7500e-003	95.9103
NaturalGas Unmitigated	9.6300e-003	0.0823	0.0350	5.3000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	95.3437	95.3437	1.8300e-003	1.7500e-003	95.9103

West Coast Tomato Growers (08130.00002.001) - San Diego 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					
Apartments Low Rise	1.78667e+006	9.6300e-003	0.0823	0.0350	5.3000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	95.3437	95.3437	1.8300e-003	1.7500e-003	95.9103
Total		9.6300e-003	0.0823	0.0350	5.3000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	95.3437	95.3437	1.8300e-003	1.7500e-003	95.9103

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					
Apartments Low Rise	1.78667e+006	9.6300e-003	0.0823	0.0350	5.3000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	95.3437	95.3437	1.8300e-003	1.7500e-003	95.9103
Total		9.6300e-003	0.0823	0.0350	5.3000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	95.3437	95.3437	1.8300e-003	1.7500e-003	95.9103

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	662344	162.2283	9.9100e-003	1.2000e-003	162.8343
Total		162.2283	9.9100e-003	1.2000e-003	162.8343

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	662344	162.2283	9.9100e-003	1.2000e-003	162.8343
Total		162.2283	9.9100e-003	1.2000e-003	162.8343

6.0 Area Detail**6.1 Mitigation Measures Area**

West Coast Tomato Growers (08130.00002.001) - San Diego 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	0.2724	0.0140	1.2172	6.0000e-005		6.7500e-003	6.7500e-003		6.7500e-003	6.7500e-003	0.0000	1.9891	1.9891	1.9100e-003	0.0000	2.0368
Unmitigated	0.2724	0.0140	1.2172	6.0000e-005		6.7500e-003	6.7500e-003		6.7500e-003	6.7500e-003	0.0000	1.9891	1.9891	1.9100e-003	0.0000	2.0368

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0674					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1683					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0366	0.0140	1.2172	6.0000e-005		6.7500e-003	6.7500e-003		6.7500e-003	6.7500e-003	0.0000	1.9891	1.9891	1.9100e-003	0.0000	2.0368
Total	0.2724	0.0140	1.2172	6.0000e-005		6.7500e-003	6.7500e-003		6.7500e-003	6.7500e-003	0.0000	1.9891	1.9891	1.9100e-003	0.0000	2.0368

West Coast Tomato Growers (08130.00002.001) - San Diego 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****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0674					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1683					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0366	0.0140	1.2172	6.0000e-005		6.7500e-003	6.7500e-003		6.7500e-003	6.7500e-003	0.0000	1.9891	1.9891	1.9100e-003	0.0000	2.0368
Total	0.2724	0.0140	1.2172	6.0000e-005		6.7500e-003	6.7500e-003		6.7500e-003	6.7500e-003	0.0000	1.9891	1.9891	1.9100e-003	0.0000	2.0368

7.0 Water Detail**7.1 Mitigation Measures Water**

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	55.7987	0.3514	8.6100e-003	67.1489
Unmitigated	55.7987	0.3514	8.6100e-003	67.1489

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	10.6853 / 6.73636	55.7987	0.3514	8.6100e-003	67.1489
Total		55.7987	0.3514	8.6100e-003	67.1489

West Coast Tomato Growers (08130.00002.001) - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	10.6853 / 6.73636	55.7987	0.3514	8.6100e-003	67.1489
Total		55.7987	0.3514	8.6100e-003	67.1489

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.3136	0.9050	0.0000	37.9389
Unmitigated	15.3136	0.9050	0.0000	37.9389

West Coast Tomato Growers (08130.00002.001) - San Diego 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	MT/yr			
Apartments Low Rise	75.44	15.3136	0.9050	0.0000	37.9389
Total		15.3136	0.9050	0.0000	37.9389

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	75.44	15.3136	0.9050	0.0000	37.9389
Total		15.3136	0.9050	0.0000	37.9389

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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West Coast Tomato Growers (08130.00002.001) - San Diego 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

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

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

West Coast Tomato Growers (08130.00002.001)
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	164.00	Dwelling Unit	4.00	43,104.00	492

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - West Coast Tomato Growers (08130.00002.001)

Land Use - Based on 492 workers, divided by 3

Construction Phase - Based on timeline provided by applicant.

Grading - 6,200 CY of cut and 5,200 CY of fill resulting in 1,000 cubic yards of export.

Vehicle Trips - Trip rates based on 150 ADT from LLG trip generation memo, and 164 dwelling units used in this analysis.

Construction Off-road Equipment Mitigation -

Woodstoves - No woodstoves or fireplaces.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	174.00

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

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

tblConstructionPhase	NumDays	8.00	43.00
tblConstructionPhase	NumDays	5.00	22.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	90.20	0.00
tblFireplaces	NumberNoFireplace	16.40	0.00
tblFireplaces	NumberWood	57.40	0.00
tblGrading	MaterialExported	0.00	1,000.00
tblLandUse	LandUseSquareFeet	164,000.00	43,104.00
tblLandUse	LotAcreage	10.25	4.00
tblLandUse	Population	469.00	492.00
tblVehicleTrips	ST_TR	8.14	0.92
tblVehicleTrips	SU_TR	6.28	0.92
tblVehicleTrips	WD_TR	7.32	0.92
tblWoodstoves	NumberCatalytic	8.20	0.00
tblWoodstoves	NumberNoncatalytic	8.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7128	27.5585	19.2214	0.0393	19.8049	1.2668	21.0717	10.1417	1.1655	11.3071	0.0000	3,812.109 ₁	3,812.109 ₁	1.1964	0.0811	3,843.079 ₂
Maximum	2.7128	27.5585	19.2214	0.0393	19.8049	1.2668	21.0717	10.1417	1.1655	11.3071	0.0000	3,812.109 ₁	3,812.109 ₁	1.1964	0.0811	3,843.079 ₂

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7128	27.5585	19.2214	0.0393	8.9935	1.2668	10.2603	4.5853	1.1655	5.7508	0.0000	3,812.109 ₁	3,812.109 ₁	1.1964	0.0811	3,843.079 ₂
Maximum	2.7128	27.5585	19.2214	0.0393	8.9935	1.2668	10.2603	4.5853	1.1655	5.7508	0.0000	3,812.109 ₁	3,812.109 ₁	1.1964	0.0811	3,843.079 ₂

	ROG	NOx	CO	SO2	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	54.59	0.00	51.31	54.79	0.00	49.14	0.00	0.00	0.00	0.00	0.00	0.00

West Coast Tomato Growers (08130.00002.001) - San Diego 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	1.6986	0.1558	13.5245	7.1000e-004		0.0750	0.0750		0.0750	0.0750	0.0000	24.3626	24.3626	0.0234	0.0000	24.9470
Energy	0.0528	0.4511	0.1920	2.8800e-003		0.0365	0.0365		0.0365	0.0365		575.8818	575.8818	0.0110	0.0106	579.3040
Mobile	0.4251	0.4786	3.9997	8.2400e-003	0.9069	6.4800e-003	0.9134	0.2416	6.0400e-003	0.2476		840.3115	840.3115	0.0616	0.0389	853.4382
Total	2.1764	1.0855	17.7162	0.0118	0.9069	0.1179	1.0248	0.2416	0.1175	0.3591	0.0000	1,440.5559	1,440.5559	0.0960	0.0494	1,457.6892

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.6986	0.1558	13.5245	7.1000e-004		0.0750	0.0750		0.0750	0.0750	0.0000	24.3626	24.3626	0.0234	0.0000	24.9470
Energy	0.0528	0.4511	0.1920	2.8800e-003		0.0365	0.0365		0.0365	0.0365		575.8818	575.8818	0.0110	0.0106	579.3040
Mobile	0.4251	0.4786	3.9997	8.2400e-003	0.9069	6.4800e-003	0.9134	0.2416	6.0400e-003	0.2476		840.3115	840.3115	0.0616	0.0389	853.4382
Total	2.1764	1.0855	17.7162	0.0118	0.9069	0.1179	1.0248	0.2416	0.1175	0.3591	0.0000	1,440.5559	1,440.5559	0.0960	0.0494	1,457.6892

West Coast Tomato Growers (08130.00002.001) - San Diego 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	1/1/2023	1/31/2023	5	22	
2	Grading	Grading	2/1/2023	3/31/2023	5	43	
3	Building Construction	Building Construction	4/1/2023	11/30/2023	5	174	

Acres of Grading (Site Preparation Phase): 33**Acres of Grading (Grading Phase): 43****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

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

Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	118.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2023**Unmitigated Construction On-Site**

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

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.2 Site Preparation - 2023****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0533	0.0344	0.4105	1.2300e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		124.8010	124.8010	3.8100e-003	3.5600e-003	125.9573
Total	0.0533	0.0344	0.4105	1.2300e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		124.8010	124.8010	3.8100e-003	3.5600e-003	125.9573

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	8.8457	1.2660	10.1117	4.5461	1.1647	5.7108	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

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

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0533	0.0344	0.4105	1.2300e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		124.8010	124.8010	3.8100e-003	3.5600e-003	125.9573
Total	0.0533	0.0344	0.4105	1.2300e-003	0.1479	7.9000e-004	0.1487	0.0392	7.3000e-004	0.0400		124.8010	124.8010	3.8100e-003	3.5600e-003	125.9573

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0859	0.0000	7.0859	3.4252	0.0000	3.4252			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	7.0859	0.7749	7.8608	3.4252	0.7129	4.1382		2,872.6910	2,872.6910	0.9291		2,895.9182

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Grading - 2023****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.1900e-003	0.3956	0.1058	1.7400e-003	0.0508	3.2300e-003	0.0541	0.0139	3.0900e-003	0.0170		192.4186	192.4186	9.6600e-003	0.0306	201.7792
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0286	0.3421	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		104.0008	104.0008	3.1800e-003	2.9700e-003	104.9644
Total	0.0506	0.4242	0.4478	2.7700e-003	0.1741	3.8900e-003	0.1780	0.0466	3.7000e-003	0.0503		296.4194	296.4194	0.0128	0.0336	306.7437

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1886	0.0000	3.1886	1.5414	0.0000	1.5414			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	3.1886	0.7749	3.9636	1.5414	0.7129	2.2543	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Grading - 2023****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.1900e-003	0.3956	0.1058	1.7400e-003	0.0508	3.2300e-003	0.0541	0.0139	3.0900e-003	0.0170		192.4186	192.4186	9.6600e-003	0.0306	201.7792
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0286	0.3421	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		104.0008	104.0008	3.1800e-003	2.9700e-003	104.9644
Total	0.0506	0.4242	0.4478	2.7700e-003	0.1741	3.8900e-003	0.1780	0.0466	3.7000e-003	0.0503		296.4194	296.4194	0.0128	0.0336	306.7437

3.4 Building Construction - 2023**Unmitigated Construction On-Site**

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

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

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

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0209	0.8041	0.2865	3.6900e-003	0.1219	4.7200e-003	0.1266	0.0351	4.5200e-003	0.0396		398.4502	398.4502	0.0120	0.0578	415.9583
Worker	0.3497	0.2252	2.6910	8.0900e-003	0.9693	5.2000e-003	0.9745	0.2571	4.7900e-003	0.2619		818.1399	818.1399	0.0250	0.0233	825.7202
Total	0.3706	1.0293	2.9774	0.0118	1.0913	9.9200e-003	1.1012	0.2922	9.3100e-003	0.3015		1,216.5901	1,216.5901	0.0370	0.0811	1,241.6785

Mitigated Construction On-Site

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

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.4 Building Construction - 2023****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0209	0.8041	0.2865	3.6900e-003	0.1219	4.7200e-003	0.1266	0.0351	4.5200e-003	0.0396		398.4502	398.4502	0.0120	0.0578	415.9583
Worker	0.3497	0.2252	2.6910	8.0900e-003	0.9693	5.2000e-003	0.9745	0.2571	4.7900e-003	0.2619		818.1399	818.1399	0.0250	0.0233	825.7202
Total	0.3706	1.0293	2.9774	0.0118	1.0913	9.9200e-003	1.1012	0.2922	9.3100e-003	0.3015		1,216.5901	1,216.5901	0.0370	0.0811	1,241.6785

West Coast Tomato Growers (08130.00002.001) - San Diego 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	0.4251	0.4786	3.9997	8.2400e-003	0.9069	6.4800e-003	0.9134	0.2416	6.0400e-003	0.2476		840.3115	840.3115	0.0616	0.0389	853.4382
Unmitigated	0.4251	0.4786	3.9997	8.2400e-003	0.9069	6.4800e-003	0.9134	0.2416	6.0400e-003	0.2476		840.3115	840.3115	0.0616	0.0389	853.4382

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	150.88	150.88	150.88	430,808	430,808
Total	150.88	150.88	150.88	430,808	430,808

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.0528	0.4511	0.1920	2.8800e-003		0.0365	0.0365		0.0365	0.0365		575.8818	575.8818	0.0110	0.0106	579.3040
NaturalGas Unmitigated	0.0528	0.4511	0.1920	2.8800e-003		0.0365	0.0365		0.0365	0.0365		575.8818	575.8818	0.0110	0.0106	579.3040

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	4895	0.0528	0.4511	0.1920	2.8800e-003		0.0365	0.0365		0.0365	0.0365		575.8818	575.8818	0.0110	0.0106	579.3040
Total		0.0528	0.4511	0.1920	2.8800e-003		0.0365	0.0365		0.0365	0.0365		575.8818	575.8818	0.0110	0.0106	579.3040

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	4.895	0.0528	0.4511	0.1920	2.8800e-003		0.0365	0.0365		0.0365	0.0365		575.8818	575.8818	0.0110	0.0106	579.3040
Total		0.0528	0.4511	0.1920	2.8800e-003		0.0365	0.0365		0.0365	0.0365		575.8818	575.8818	0.0110	0.0106	579.3040

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	1.6986	0.1558	13.5245	7.1000e-004		0.0750	0.0750		0.0750	0.0750	0.0000	24.3626	24.3626	0.0234	0.0000	24.9470
Unmitigated	1.6986	0.1558	13.5245	7.1000e-004		0.0750	0.0750		0.0750	0.0750	0.0000	24.3626	24.3626	0.0234	0.0000	24.9470

West Coast Tomato Growers (08130.00002.001) - San Diego 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	0.3695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9224					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4067	0.1558	13.5245	7.1000e-004		0.0750	0.0750		0.0750	0.0750		24.3626	24.3626	0.0234		24.9470
Total	1.6986	0.1558	13.5245	7.1000e-004		0.0750	0.0750		0.0750	0.0750	0.0000	24.3626	24.3626	0.0234	0.0000	24.9470

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9224					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4067	0.1558	13.5245	7.1000e-004		0.0750	0.0750		0.0750	0.0750		24.3626	24.3626	0.0234		24.9470
Total	1.6986	0.1558	13.5245	7.1000e-004		0.0750	0.0750		0.0750	0.0750	0.0000	24.3626	24.3626	0.0234	0.0000	24.9470

7.0 Water Detail**7.1 Mitigation Measures Water**

West Coast Tomato Growers (08130.00002.001) - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
