

Appendix A

Air Quality/Energy/Greenhouse Gas Emissions Data

City of Gardena - Uhaul - Los Angeles-South Coast County, Annual

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

**City of Gardena - Uhaul
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	177.57	1000sqft	4.08	177,573.00	0
General Office Building	3.82	1000sqft	0.09	3,820.00	0
Hardware/Paint Store	4.18	1000sqft	0.03	4,180.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
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 - Operational Year: 2023

Land Use - 177,573 sf warehouse; 3,820 sf office building; 4,180 sf retail. Total acreage = 4.20 acres

Construction Phase - Construction schedule as provided by Project applicant.

Off-road Equipment -

Off-road Equipment - Project construction equipment provided by project applicant.

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Off-road Equipment -

Trips and VMT -

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Demolition - Total of 43,267 s.f. of building demolished (per Project Applicant). See Trip generation provided by traffic consultant.

Grading - Import: 6100 cy; Export: 100 cy.

Vehicle Trips - Operational mobile trips provided by traffic consultant. 120 net new project trips daily = 0.675778412259 trips per 1000 square feet of warehouse uses per day. [120 net daily trips/177.573 sf of warehouse uses = 0.675778412259]

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Energy Use -

Construction Off-road Equipment Mitigation - Reductions include: Water Exposed Area 3 times daily; Unpaved Road Mitigation (Moisture Content at 12%; Vehicle Speed 15 MPH).

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Fleet Mix -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	8.00	45.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	230.00	240.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	PhaseEndDate	2/4/2022	2/28/2022
tblConstructionPhase	PhaseEndDate	2/16/2022	5/2/2022
tblConstructionPhase	PhaseEndDate	1/30/2023	5/15/2023
tblConstructionPhase	PhaseEndDate	1/4/2023	4/3/2023
tblConstructionPhase	PhaseEndDate	2/23/2023	6/26/2023
tblConstructionPhase	PhaseStartDate	2/5/2022	3/1/2022

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tblConstructionPhase	PhaseStartDate	1/5/2023	4/4/2023
tblConstructionPhase	PhaseStartDate	2/17/2022	5/3/2022
tblConstructionPhase	PhaseStartDate	1/31/2023	5/16/2023
tblGrading	MaterialExported	0.00	6,100.00
tblGrading	MaterialImported	0.00	100.00
tblLandUse	LotAcreage	0.10	0.03
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	9.14	0.00
tblVehicleTrips	ST_TR	1.74	0.68
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	9.14	0.00
tblVehicleTrips	SU_TR	1.74	0.68
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	9.14	0.00
tblVehicleTrips	WD_TR	1.74	0.68

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2846	2.6736	2.5175	5.3400e-003	0.4930	0.1233	0.6163	0.2149	0.1151	0.3300	0.0000	476.0853	476.0853	0.0933	0.0138	482.5216
2023	0.9395	0.6737	0.8658	1.6900e-003	0.0398	0.0311	0.0709	0.0107	0.0292	0.0399	0.0000	149.9719	149.9719	0.0275	3.2900e-003	151.6378
Maximum	0.9395	2.6736	2.5175	5.3400e-003	0.4930	0.1233	0.6163	0.2149	0.1151	0.3300	0.0000	476.0853	476.0853	0.0933	0.0138	482.5216

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2846	2.6736	2.5175	5.3400e-003	0.2567	0.1233	0.3800	0.1012	0.1151	0.2163	0.0000	476.0849	476.0849	0.0933	0.0138	482.5212
2023	0.9395	0.6737	0.8658	1.6900e-003	0.0398	0.0311	0.0709	0.0107	0.0292	0.0399	0.0000	149.9718	149.9718	0.0275	3.2900e-003	151.6377
Maximum	0.9395	2.6736	2.5175	5.3400e-003	0.2567	0.1233	0.3800	0.1012	0.1151	0.2163	0.0000	476.0849	476.0849	0.0933	0.0138	482.5212

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	44.35	0.00	34.39	50.39	0.00	30.74	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2022	3-31-2022	0.9926	0.9926
2	4-1-2022	6-30-2022	0.7025	0.7025
3	7-1-2022	9-30-2022	0.6345	0.6345
4	10-1-2022	12-31-2022	0.6378	0.6378
5	1-1-2023	3-31-2023	0.5674	0.5674
6	4-1-2023	6-30-2023	1.0498	1.0498
		Highest	1.0498	1.0498

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7568	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6100e-003	4.6100e-003	1.0000e-005	0.0000	4.9100e-003
Energy	3.9600e-003	0.0360	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	185.6562	185.6562	0.0131	2.2200e-003	186.6447
Mobile	0.0747	0.0934	0.8412	1.8700e-003	0.1932	1.3600e-003	0.1946	0.0515	1.2600e-003	0.0528	0.0000	174.2949	174.2949	0.0113	7.2800e-003	176.7443
Waste						0.0000	0.0000		0.0000	0.0000	44.0125	0.0000	44.0125	2.6011	0.0000	109.0391
Water						0.0000	0.0000		0.0000	0.0000	13.3410	98.3001	111.6412	1.3786	0.0334	156.0463
Total	0.8355	0.1294	0.8738	2.0900e-003	0.1932	4.1000e-003	0.1973	0.0515	4.0000e-003	0.0555	57.3535	458.2558	515.6093	4.0040	0.0429	628.4793

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7568	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6100e-003	4.6100e-003	1.0000e-005	0.0000	4.9100e-003
Energy	3.9600e-003	0.0360	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	185.6562	185.6562	0.0131	2.2200e-003	186.6447
Mobile	0.0747	0.0934	0.8412	1.8700e-003	0.1932	1.3600e-003	0.1946	0.0515	1.2600e-003	0.0528	0.0000	174.2949	174.2949	0.0113	7.2800e-003	176.7443
Waste						0.0000	0.0000		0.0000	0.0000	44.0125	0.0000	44.0125	2.6011	0.0000	109.0391
Water						0.0000	0.0000		0.0000	0.0000	13.3410	98.3001	111.6412	1.3786	0.0334	156.0463
Total	0.8355	0.1294	0.8738	2.0900e-003	0.1932	4.1000e-003	0.1973	0.0515	4.0000e-003	0.0555	57.3535	458.2558	515.6093	4.0040	0.0429	628.4793

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Site Preparation	Site Preparation	1/29/2022	2/28/2022	5	21	
3	Grading	Grading	3/1/2022	5/2/2022	5	45	

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4	Building Construction	Building Construction	5/3/2022	4/3/2023	5	240
5	Paving	Paving	4/4/2023	5/15/2023	5	30
6	Architectural Coating	Architectural Coating	5/16/2023	6/26/2023	5	30

Acres of Grading (Site Preparation Phase): 31.5

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 278,360; Non-Residential Outdoor: 92,787; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

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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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	775.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	197.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

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

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0213	0.0000	0.0213	3.2200e-003	0.0000	3.2200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0213	0.0124	0.0337	3.2200e-003	0.0116	0.0148	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5000e-004	0.0174	3.8800e-003	6.0000e-005	1.6900e-003	1.2000e-004	1.8200e-003	4.7000e-004	1.2000e-004	5.8000e-004	0.0000	6.0840	6.0840	3.2000e-004	9.7000e-004	6.3798
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	4.3000e-004	5.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3606	1.3606	4.0000e-005	4.0000e-005	1.3726
Total	9.6000e-004	0.0179	9.4500e-003	7.0000e-005	3.3300e-003	1.3000e-004	3.4700e-003	9.1000e-004	1.3000e-004	1.0300e-003	0.0000	7.4446	7.4446	3.6000e-004	1.0100e-003	7.7523

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3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.3100e-003	0.0000	8.3100e-003	1.2600e-003	0.0000	1.2600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	8.3100e-003	0.0124	0.0207	1.2600e-003	0.0116	0.0128	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5000e-004	0.0174	3.8800e-003	6.0000e-005	1.6900e-003	1.2000e-004	1.8200e-003	4.7000e-004	1.2000e-004	5.8000e-004	0.0000	6.0840	6.0840	3.2000e-004	9.7000e-004	6.3798
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	4.3000e-004	5.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3606	1.3606	4.0000e-005	4.0000e-005	1.3726
Total	9.6000e-004	0.0179	9.4500e-003	7.0000e-005	3.3300e-003	1.3000e-004	3.4700e-003	9.1000e-004	1.3000e-004	1.0300e-003	0.0000	7.4446	7.4446	3.6000e-004	1.0100e-003	7.7523

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3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2064	0.0000	0.2064	0.1061	0.0000	0.1061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0333	0.3474	0.2068	4.0000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	35.1114	35.1114	0.0114	0.0000	35.3953
Total	0.0333	0.3474	0.2068	4.0000e-004	0.2064	0.0169	0.2233	0.1061	0.0156	0.1217	0.0000	35.1114	35.1114	0.0114	0.0000	35.3953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.4000e-004	7.0200e-003	2.0000e-005	2.0700e-003	1.0000e-005	2.0800e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.7144	1.7144	5.0000e-005	5.0000e-005	1.7295
Total	6.5000e-004	5.4000e-004	7.0200e-003	2.0000e-005	2.0700e-003	1.0000e-005	2.0800e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.7144	1.7144	5.0000e-005	5.0000e-005	1.7295

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3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0805	0.0000	0.0805	0.0414	0.0000	0.0414	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0333	0.3474	0.2068	4.0000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	35.1113	35.1113	0.0114	0.0000	35.3952
Total	0.0333	0.3474	0.2068	4.0000e-004	0.0805	0.0169	0.0974	0.0414	0.0156	0.0570	0.0000	35.1113	35.1113	0.0114	0.0000	35.3952

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.4000e-004	7.0200e-003	2.0000e-005	2.0700e-003	1.0000e-005	2.0800e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.7144	1.7144	5.0000e-005	5.0000e-005	1.7295
Total	6.5000e-004	5.4000e-004	7.0200e-003	2.0000e-005	2.0700e-003	1.0000e-005	2.0800e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.7144	1.7144	5.0000e-005	5.0000e-005	1.7295

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

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1597	0.0000	0.1597	0.0771	0.0000	0.0771	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0438	0.4692	0.3436	6.7000e-004		0.0212	0.0212		0.0195	0.0195	0.0000	58.6232	58.6232	0.0190	0.0000	59.0972
Total	0.0438	0.4692	0.3436	6.7000e-004	0.1597	0.0212	0.1809	0.0771	0.0195	0.0966	0.0000	58.6232	58.6232	0.0190	0.0000	59.0972

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7900e-003	0.0685	0.0153	2.4000e-004	6.6700e-003	4.8000e-004	7.1500e-003	1.8300e-003	4.6000e-004	2.2900e-003	0.0000	23.9345	23.9345	1.2700e-003	3.8000e-003	25.0980
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	9.6000e-004	0.0125	3.0000e-005	3.7000e-003	2.0000e-005	3.7200e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.0614	3.0614	9.0000e-005	8.0000e-005	3.0883
Total	2.9500e-003	0.0695	0.0278	2.7000e-004	0.0104	5.0000e-004	0.0109	2.8100e-003	4.8000e-004	3.2900e-003	0.0000	26.9959	26.9959	1.3600e-003	3.8800e-003	28.1863

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

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0623	0.0000	0.0623	0.0301	0.0000	0.0301	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0438	0.4692	0.3436	6.7000e-004		0.0212	0.0212		0.0195	0.0195	0.0000	58.6232	58.6232	0.0190	0.0000	59.0972
Total	0.0438	0.4692	0.3436	6.7000e-004	0.0623	0.0212	0.0835	0.0301	0.0195	0.0496	0.0000	58.6232	58.6232	0.0190	0.0000	59.0972

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7900e-003	0.0685	0.0153	2.4000e-004	6.6700e-003	4.8000e-004	7.1500e-003	1.8300e-003	4.6000e-004	2.2900e-003	0.0000	23.9345	23.9345	1.2700e-003	3.8000e-003	25.0980
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	9.6000e-004	0.0125	3.0000e-005	3.7000e-003	2.0000e-005	3.7200e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.0614	3.0614	9.0000e-005	8.0000e-005	3.0883
Total	2.9500e-003	0.0695	0.0278	2.7000e-004	0.0104	5.0000e-004	0.0109	2.8100e-003	4.8000e-004	3.2900e-003	0.0000	26.9959	26.9959	1.3600e-003	3.8800e-003	28.1863

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1484	1.3586	1.4236	2.3400e-003		0.0704	0.0704		0.0662	0.0662	0.0000	201.6010	201.6010	0.0483	0.0000	202.8084
Total	0.1484	1.3586	1.4236	2.3400e-003		0.0704	0.0704		0.0662	0.0662	0.0000	201.6010	201.6010	0.0483	0.0000	202.8084

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0900e-003	0.1342	0.0445	5.1000e-004	0.0165	1.2200e-003	0.0177	4.7500e-003	1.1700e-003	5.9100e-003	0.0000	49.8400	49.8400	1.6600e-003	7.1900e-003	52.0240
Worker	0.0230	0.0191	0.2487	6.6000e-004	0.0734	4.8000e-004	0.0739	0.0195	4.4000e-004	0.0199	0.0000	60.7646	60.7646	1.7300e-003	1.6500e-003	61.2997
Total	0.0281	0.1533	0.2932	1.1700e-003	0.0899	1.7000e-003	0.0916	0.0243	1.6100e-003	0.0259	0.0000	110.6046	110.6046	3.3900e-003	8.8400e-003	113.3237

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3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1484	1.3586	1.4236	2.3400e-003		0.0704	0.0704		0.0662	0.0662	0.0000	201.6007	201.6007	0.0483	0.0000	202.8082
Total	0.1484	1.3586	1.4236	2.3400e-003		0.0704	0.0704		0.0662	0.0662	0.0000	201.6007	201.6007	0.0483	0.0000	202.8082

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0900e-003	0.1342	0.0445	5.1000e-004	0.0165	1.2200e-003	0.0177	4.7500e-003	1.1700e-003	5.9100e-003	0.0000	49.8400	49.8400	1.6600e-003	7.1900e-003	52.0240
Worker	0.0230	0.0191	0.2487	6.6000e-004	0.0734	4.8000e-004	0.0739	0.0195	4.4000e-004	0.0199	0.0000	60.7646	60.7646	1.7300e-003	1.6500e-003	61.2997
Total	0.0281	0.1533	0.2932	1.1700e-003	0.0899	1.7000e-003	0.0916	0.0243	1.6100e-003	0.0259	0.0000	110.6046	110.6046	3.3900e-003	8.8400e-003	113.3237

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

3.5 Building Construction - 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	0.0519	0.4747	0.5361	8.9000e-004		0.0231	0.0231		0.0217	0.0217	0.0000	76.4956	76.4956	0.0182	0.0000	76.9505
Total	0.0519	0.4747	0.5361	8.9000e-004		0.0231	0.0231		0.0217	0.0217	0.0000	76.4956	76.4956	0.0182	0.0000	76.9505

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	1.1200e-003	0.0399	0.0149	1.8000e-004	6.2400e-003	1.9000e-004	6.4300e-003	1.8000e-003	1.8000e-004	1.9800e-003	0.0000	18.0004	18.0004	6.0000e-004	2.5900e-003	18.7874
Worker	8.0700e-003	6.4100e-003	0.0868	2.4000e-004	0.0278	1.7000e-004	0.0280	7.4000e-003	1.6000e-004	7.5500e-003	0.0000	22.4415	22.4415	5.9000e-004	5.8000e-004	22.6282
Total	9.1900e-003	0.0463	0.1017	4.2000e-004	0.0341	3.6000e-004	0.0345	9.2000e-003	3.4000e-004	9.5300e-003	0.0000	40.4419	40.4419	1.1900e-003	3.1700e-003	41.4156

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0519	0.4747	0.5361	8.9000e-004		0.0231	0.0231		0.0217	0.0217	0.0000	76.4955	76.4955	0.0182	0.0000	76.9504
Total	0.0519	0.4747	0.5361	8.9000e-004		0.0231	0.0231		0.0217	0.0217	0.0000	76.4955	76.4955	0.0182	0.0000	76.9504

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	1.1200e-003	0.0399	0.0149	1.8000e-004	6.2400e-003	1.9000e-004	6.4300e-003	1.8000e-003	1.8000e-004	1.9800e-003	0.0000	18.0004	18.0004	6.0000e-004	2.5900e-003	18.7874
Worker	8.0700e-003	6.4100e-003	0.0868	2.4000e-004	0.0278	1.7000e-004	0.0280	7.4000e-003	1.6000e-004	7.5500e-003	0.0000	22.4415	22.4415	5.9000e-004	5.8000e-004	22.6282
Total	9.1900e-003	0.0463	0.1017	4.2000e-004	0.0341	3.6000e-004	0.0345	9.2000e-003	3.4000e-004	9.5300e-003	0.0000	40.4419	40.4419	1.1900e-003	3.1700e-003	41.4156

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

3.6 Paving - 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	0.0138	0.1319	0.1829	2.8000e-004		6.5300e-003	6.5300e-003		6.0400e-003	6.0400e-003	0.0000	24.5679	24.5679	7.7200e-003	0.0000	24.7609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0138	0.1319	0.1829	2.8000e-004		6.5300e-003	6.5300e-003		6.0400e-003	6.0400e-003	0.0000	24.5679	24.5679	7.7200e-003	0.0000	24.7609

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.6000e-004	0.0103	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6495	2.6495	7.0000e-005	7.0000e-005	2.6716
Total	9.5000e-004	7.6000e-004	0.0103	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6495	2.6495	7.0000e-005	7.0000e-005	2.6716

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3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0138	0.1319	0.1829	2.8000e-004		6.5300e-003	6.5300e-003		6.0400e-003	6.0400e-003	0.0000	24.5679	24.5679	7.7200e-003	0.0000	24.7608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0138	0.1319	0.1829	2.8000e-004		6.5300e-003	6.5300e-003		6.0400e-003	6.0400e-003	0.0000	24.5679	24.5679	7.7200e-003	0.0000	24.7608

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.6000e-004	0.0103	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6495	2.6495	7.0000e-005	7.0000e-005	2.6716
Total	9.5000e-004	7.6000e-004	0.0103	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6495	2.6495	7.0000e-005	7.0000e-005	2.6716

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3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8601					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.8630	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.7000e-004	7.6900e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9872	1.9872	5.0000e-005	5.0000e-005	2.0037
Total	7.1000e-004	5.7000e-004	7.6900e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9872	1.9872	5.0000e-005	5.0000e-005	2.0037

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3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8601					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.8630	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.7000e-004	7.6900e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9872	1.9872	5.0000e-005	5.0000e-005	2.0037
Total	7.1000e-004	5.7000e-004	7.6900e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9872	1.9872	5.0000e-005	5.0000e-005	2.0037

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0747	0.0934	0.8412	1.8700e-003	0.1932	1.3600e-003	0.1946	0.0515	1.2600e-003	0.0528	0.0000	174.2949	174.2949	0.0113	7.2800e-003	176.7443
Unmitigated	0.0747	0.0934	0.8412	1.8700e-003	0.1932	1.3600e-003	0.1946	0.0515	1.2600e-003	0.0528	0.0000	174.2949	174.2949	0.0113	7.2800e-003	176.7443

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Hardware/Paint Store	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	120.00	120.00	120.00	514,286	514,286
Total	120.00	120.00	120.00	514,286	514,286

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
Hardware/Paint Store	16.60	8.40	6.90	13.60	67.40	19.00	45	29	26
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Hardware/Paint Store	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Unrefrigerated Warehouse-No Rail	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

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	146.5060	146.5060	0.0124	1.5000e-003	147.2618
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	146.5060	146.5060	0.0124	1.5000e-003	147.2618
NaturalGas Mitigated	3.9600e-003	0.0360	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	39.1503	39.1503	7.5000e-004	7.2000e-004	39.3829
NaturalGas Unmitigated	3.9600e-003	0.0360	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	39.1503	39.1503	7.5000e-004	7.2000e-004	39.3829

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	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					
General Office Building	34571	1.9000e-004	1.6900e-003	1.4200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8448	1.8448	4.0000e-005	3.0000e-005	1.8558
Hardware/Paint Store	8318.2	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4439	0.4439	1.0000e-005	1.0000e-005	0.4465
Unrefrigerated Warehouse-No Rail	690759	3.7200e-003	0.0339	0.0284	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003	0.0000	36.8615	36.8615	7.1000e-004	6.8000e-004	37.0806
Total		3.9500e-003	0.0360	0.0302	2.1000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	39.1503	39.1503	7.6000e-004	7.2000e-004	39.3829

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
General Office Building	34571	1.9000e-004	1.6900e-003	1.4200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8448	1.8448	4.0000e-005	3.0000e-005	1.8558
Hardware/Paint Store	8318.2	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4439	0.4439	1.0000e-005	1.0000e-005	0.4465
Unrefrigerated Warehouse-No Rail	690759	3.7200e-003	0.0339	0.0284	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003	0.0000	36.8615	36.8615	7.1000e-004	6.8000e-004	37.0806
Total		3.9500e-003	0.0360	0.0302	2.1000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	39.1503	39.1503	7.6000e-004	7.2000e-004	39.3829

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	51531.8	9.1389	7.7000e-004	9.0000e-005	9.1861
Hardware/Paint Store	46523.4	8.2507	7.0000e-004	8.0000e-005	8.2933
Unrefrigerated Warehouse-No Rail	728049	129.1163	0.0109	1.3200e-003	129.7824
Total		146.5060	0.0124	1.4900e-003	147.2618

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	51531.8	9.1389	7.7000e-004	9.0000e-005	9.1861
Hardware/Paint Store	46523.4	8.2507	7.0000e-004	8.0000e-005	8.2933
Unrefrigerated Warehouse-No Rail	728049	129.1163	0.0109	1.3200e-003	129.7824
Total		146.5060	0.0124	1.4900e-003	147.2618

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.7568	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6100e-003	4.6100e-003	1.0000e-005	0.0000	4.9100e-003
Unmitigated	0.7568	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6100e-003	4.6100e-003	1.0000e-005	0.0000	4.9100e-003

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	0.0860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6706					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6100e-003	4.6100e-003	1.0000e-005	0.0000	4.9100e-003
Total	0.7568	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6100e-003	4.6100e-003	1.0000e-005	0.0000	4.9100e-003

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6706					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6100e-003	4.6100e-003	1.0000e-005	0.0000	4.9100e-003
Total	0.7568	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6100e-003	4.6100e-003	1.0000e-005	0.0000	4.9100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

City of Gardena - Uhaul - Los Angeles-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	111.6412	1.3786	0.0334	156.0463
Unmitigated	111.6412	1.3786	0.0334	156.0463

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.678943 / 0.416126	2.6031	0.0223	5.5000e-004	3.3242
Hardware/Paint Store	0.309623 / 0.189769	1.1871	0.0102	2.5000e-004	1.5160
Unrefrigerated Warehouse-No Rail	41.0631 / 0	107.8509	1.3460	0.0326	151.2061
Total		111.6412	1.3785	0.0334	156.0463

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.678943 / 0.416126	2.6031	0.0223	5.5000e-004	3.3242
Hardware/Paint Store	0.309623 / 0.189769	1.1871	0.0102	2.5000e-004	1.5160
Unrefrigerated Warehouse-No Rail	41.0631 / 0	107.8509	1.3460	0.0326	151.2061
Total		111.6412	1.3785	0.0334	156.0463

8.0 Waste Detail

8.1 Mitigation Measures Waste

City of Gardena - Uhaul - Los Angeles-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	44.0125	2.6011	0.0000	109.0391
Unmitigated	44.0125	2.6011	0.0000	109.0391

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	3.55	0.7206	0.0426	0.0000	1.7853
Hardware/Paint Store	46.35	9.4086	0.5560	0.0000	23.3095
Unrefrigerated Warehouse-No Rail	166.92	33.8833	2.0024	0.0000	83.9443
Total		44.0125	2.6011	0.0000	109.0391

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	3.55	0.7206	0.0426	0.0000	1.7853
Hardware/Paint Store	46.35	9.4086	0.5560	0.0000	23.3095
Unrefrigerated Warehouse-No Rail	166.92	33.8833	2.0024	0.0000	83.9443
Total		44.0125	2.6011	0.0000	109.0391

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
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

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

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

11.0 Vegetation

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

**City of Gardena - Uhaul
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	177.57	1000sqft	4.08	177,573.00	0
General Office Building	3.82	1000sqft	0.09	3,820.00	0
Hardware/Paint Store	4.18	1000sqft	0.03	4,180.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8	Operational Year	2023		
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 - Operational Year: 2023

Land Use - 177,573 sf warehouse; 3,820 sf office building; 4,180 sf retail. Total acreage = 4.20 acres

Construction Phase - Construction schedule as provided by Project applicant.

Off-road Equipment -

Off-road Equipment - Project construction equipment provided by project applicant.

Off-road Equipment - Project construction equipment provided by project applicant.

Off-road Equipment - Project construction equipment provided by project applicant.

Off-road Equipment - Project construction equipment provided by project applicant.

Off-road Equipment -

Trips and VMT -

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

Demolition - Total of 43,267 s.f. of building demolished (per Project Applicant). See Trip generation provided by traffic consultant.

Grading - Import: 6100 cy; Export: 100 cy.

Vehicle Trips - Operational mobile trips provided by traffic consultant. 120 net new project trips daily = 0.675778412259 trips per 1000 square feet of warehouse uses per day. [120 net daily trips/177.573 sf of warehouse uses = 0.675778412259]

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Energy Use -

Construction Off-road Equipment Mitigation - Reductions include: Water Exposed Area 3 times daily; Unpaved Road Mitigation (Moisture Content at 12%; Vehicle Speed 15 MPH).

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Fleet Mix -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	8.00	45.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	230.00	240.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	PhaseEndDate	2/4/2022	2/28/2022
tblConstructionPhase	PhaseEndDate	2/16/2022	5/2/2022
tblConstructionPhase	PhaseEndDate	1/30/2023	5/15/2023
tblConstructionPhase	PhaseEndDate	1/4/2023	4/3/2023
tblConstructionPhase	PhaseEndDate	2/23/2023	6/26/2023
tblConstructionPhase	PhaseStartDate	2/5/2022	3/1/2022

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

tblConstructionPhase	PhaseStartDate	1/5/2023	4/4/2023
tblConstructionPhase	PhaseStartDate	2/17/2022	5/3/2022
tblConstructionPhase	PhaseStartDate	1/31/2023	5/16/2023
tblGrading	MaterialExported	0.00	6,100.00
tblGrading	MaterialImported	0.00	100.00
tblLandUse	LotAcreage	0.10	0.03
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	9.14	0.00
tblVehicleTrips	ST_TR	1.74	0.68
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	9.14	0.00
tblVehicleTrips	SU_TR	1.74	0.68
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	9.14	0.00
tblVehicleTrips	WD_TR	1.74	0.68

2.0 Emissions Summary

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2324	33.1290	21.5710	0.0465	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	4,573.364 2	4,573.364 2	1.1972	0.1898	4,633.494 9
2023	57.5819	15.7083	19.4804	0.0401	1.0528	0.7107	1.7636	0.2836	0.6687	0.9523	0.0000	3,935.769 2	3,935.769 2	0.6474	0.1042	3,982.992 4
Maximum	57.5819	33.1290	21.5710	0.0465	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	4,573.364 2	4,573.364 2	1.1972	0.1898	4,633.494 9

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	3.2324	33.1290	21.5710	0.0465	7.8674	1.6139	9.4813	3.9933	1.4848	5.4781	0.0000	4,573.364 2	4,573.364 2	1.1972	0.1898	4,633.494 9
2023	57.5819	15.7083	19.4804	0.0401	1.0528	0.7107	1.7636	0.2836	0.6687	0.9523	0.0000	3,935.769 2	3,935.769 2	0.6474	0.1042	3,982.992 4
Maximum	57.5819	33.1290	21.5710	0.0465	7.8674	1.6139	9.4813	3.9933	1.4848	5.4781	0.0000	4,573.364 2	4,573.364 2	1.1972	0.1898	4,633.494 9

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	57.34	0.00	51.61	59.03	0.00	48.94	0.00	0.00	0.00	0.00	0.00	0.00

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433
Energy	0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3400e-003	237.8752
Mobile	0.4225	0.4674	4.7186	0.0106	1.0827	7.4700e-003	1.0901	0.2884	6.9300e-003	0.2953		1,091.2457	1,091.2457	0.0669	0.0419	1,105.3988
Total	4.5916	0.6646	4.9031	0.0118	1.0827	0.0225	1.1052	0.2884	0.0220	0.3104		1,327.7563	1,327.7563	0.0716	0.0462	1,343.3173

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433
Energy	0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3400e-003	237.8752
Mobile	0.4225	0.4674	4.7186	0.0106	1.0827	7.4700e-003	1.0901	0.2884	6.9300e-003	0.2953		1,091.2457	1,091.2457	0.0669	0.0419	1,105.3988
Total	4.5916	0.6646	4.9031	0.0118	1.0827	0.0225	1.1052	0.2884	0.0220	0.3104		1,327.7563	1,327.7563	0.0716	0.0462	1,343.3173

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Site Preparation	Site Preparation	1/29/2022	2/28/2022	5	21	
3	Grading	Grading	3/1/2022	5/2/2022	5	45	
4	Building Construction	Building Construction	5/3/2022	4/3/2023	5	240	
5	Paving	Paving	4/4/2023	5/15/2023	5	30	
6	Architectural Coating	Architectural Coating	5/16/2023	6/26/2023	5	30	

Acres of Grading (Site Preparation Phase): 31.5

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 278,360; Non-Residential Outdoor: 92,787; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	775.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	197.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1295	0.0000	2.1295	0.3224	0.0000	0.3224			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	2.1295	1.2427	3.3722	0.3224	1.1553	1.4777		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0459	1.6543	0.3857	6.1200e-003	0.1724	0.0123	0.1847	0.0473	0.0118	0.0590		670.5640	670.5640	0.0356	0.1064	703.1597
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
Total	0.0978	1.6922	0.9769	7.6500e-003	0.3401	0.0134	0.3534	0.0917	0.0128	0.1045		826.5830	826.5830	0.0398	0.1101	860.4028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.8305	0.0000	0.8305	0.1258	0.0000	0.1258			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	0.8305	1.2427	2.0732	0.1258	1.1553	1.2810	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0459	1.6543	0.3857	6.1200e-003	0.1724	0.0123	0.1847	0.0473	0.0118	0.0590		670.5640	670.5640	0.0356	0.1064	703.1597
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
Total	0.0978	1.6922	0.9769	7.6500e-003	0.3401	0.0134	0.3534	0.0917	0.0128	0.1045		826.5830	826.5830	0.0398	0.1101	860.4028

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

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

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
Total	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	7.6662	1.6126	9.2788	3.9400	1.4836	5.4235	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
Total	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0982	0.0000	7.0982	3.4271	0.0000	3.4271			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	7.0982	0.9409	8.0390	3.4271	0.8656	4.2927		2,872.0464	2,872.0464	0.9289		2,895.2684

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0802	2.8925	0.6744	0.0107	0.3015	0.0215	0.3229	0.0827	0.0206	0.1032		1,172.4469	1,172.4469	0.0623	0.1860	1,229.4388
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
Total	0.1322	2.9304	1.2656	0.0122	0.4691	0.0226	0.4917	0.1271	0.0216	0.1487		1,328.4659	1,328.4659	0.0665	0.1898	1,386.6820

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.7683	0.0000	2.7683	1.3366	0.0000	1.3366			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	2.7683	0.9409	3.7091	1.3366	0.8656	2.2022	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0802	2.8925	0.6744	0.0107	0.3015	0.0215	0.3229	0.0827	0.0206	0.1032		1,172.4469	1,172.4469	0.0623	0.1860	1,229.4388
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
Total	0.1322	2.9304	1.2656	0.0122	0.4691	0.0226	0.4917	0.1271	0.0216	0.1487		1,328.4659	1,328.4659	0.0665	0.1898	1,386.6820

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0590	1.4695	0.5039	5.8800e-003	0.1922	0.0140	0.2062	0.0553	0.0134	0.0687		631.3848	631.3848	0.0211	0.0910	659.0254
Worker	0.2665	0.1946	3.0348	7.8700e-003	0.8607	5.5200e-003	0.8662	0.2283	5.0800e-003	0.2333		800.8978	800.8978	0.0217	0.0193	807.1816
Total	0.3255	1.6641	3.5387	0.0138	1.0528	0.0195	1.0724	0.2836	0.0185	0.3021		1,432.2826	1,432.2826	0.0428	0.1103	1,466.2070

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0590	1.4695	0.5039	5.8800e-003	0.1922	0.0140	0.2062	0.0553	0.0134	0.0687		631.3848	631.3848	0.0211	0.0910	659.0254
Worker	0.2665	0.1946	3.0348	7.8700e-003	0.8607	5.5200e-003	0.8662	0.2283	5.0800e-003	0.2333		800.8978	800.8978	0.0217	0.0193	807.1816
Total	0.3255	1.6641	3.5387	0.0138	1.0528	0.0195	1.0724	0.2836	0.0185	0.3021		1,432.2826	1,432.2826	0.0428	0.1103	1,466.2070

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0345	1.1515	0.4461	5.5800e-003	0.1922	5.7900e-003	0.1980	0.0553	5.5400e-003	0.0609		600.8474	600.8474	0.0201	0.0864	627.0933
Worker	0.2466	0.1719	2.7903	7.6200e-003	0.8607	5.1900e-003	0.8659	0.2283	4.7800e-003	0.2330		779.7118	779.7118	0.0194	0.0178	785.4931
Total	0.2811	1.3234	3.2364	0.0132	1.0528	0.0110	1.0638	0.2836	0.0103	0.2939		1,380.5593	1,380.5593	0.0396	0.1042	1,412.5864

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0345	1.1515	0.4461	5.5800e-003	0.1922	5.7900e-003	0.1980	0.0553	5.5400e-003	0.0609		600.8474	600.8474	0.0201	0.0864	627.0933
Worker	0.2466	0.1719	2.7903	7.6200e-003	0.8607	5.1900e-003	0.8659	0.2283	4.7800e-003	0.2330		779.7118	779.7118	0.0194	0.0178	785.4931
Total	0.2811	1.3234	3.2364	0.0132	1.0528	0.0110	1.0638	0.2836	0.0103	0.2939		1,380.5593	1,380.5593	0.0396	0.1042	1,412.5864

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0447	0.7248	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.5226	202.5226	5.0400e-003	4.6200e-003	204.0242
Total	0.0640	0.0447	0.7248	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.5226	202.5226	5.0400e-003	4.6200e-003	204.0242

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0447	0.7248	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.5226	202.5226	5.0400e-003	4.6200e-003	204.0242
Total	0.0640	0.0447	0.7248	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.5226	202.5226	5.0400e-003	4.6200e-003	204.0242

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.3422					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	57.5339	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
Total	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	57.3422					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	57.5339	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
Total	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4225	0.4674	4.7186	0.0106	1.0827	7.4700e-003	1.0901	0.2884	6.9300e-003	0.2953		1,091,245 7	1,091,245 7	0.0669	0.0419	1,105.398 8
Unmitigated	0.4225	0.4674	4.7186	0.0106	1.0827	7.4700e-003	1.0901	0.2884	6.9300e-003	0.2953		1,091,245 7	1,091,245 7	0.0669	0.0419	1,105.398 8

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Hardware/Paint Store	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	120.00	120.00	120.00	514,286	514,286
Total	120.00	120.00	120.00	514,286	514,286

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
Hardware/Paint Store	16.60	8.40	6.90	13.60	67.40	19.00	45	29	26
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Hardware/Paint Store	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

Unrefrigerated Warehouse-No Rail	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
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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	0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3400e-003	237.8752
NaturalGas Unmitigated	0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3400e-003	237.8752

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
General Office Building	94.7151	1.0200e-003	9.2900e-003	7.8000e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		11.1430	11.1430	2.1000e-004	2.0000e-004	11.2092
Hardware/Paint Store	22.7896	2.5000e-004	2.2300e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.6811	2.6811	5.0000e-005	5.0000e-005	2.6971
Unrefrigerated Warehouse-No Rail	1892.49	0.0204	0.1855	0.1559	1.1100e-003		0.0141	0.0141		0.0141	0.0141		222.6459	222.6459	4.2700e-003	4.0800e-003	223.9690
Total		0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3300e-003	237.8752

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
General Office Building	0.0947151	1.0200e-003	9.2900e-003	7.8000e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		11.1430	11.1430	2.1000e-004	2.0000e-004	11.2092
Hardware/Paint Store	0.0227896	2.5000e-004	2.2300e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.6811	2.6811	5.0000e-005	5.0000e-005	2.6971
Unrefrigerated Warehouse-No Rail	1.89249	0.0204	0.1855	0.1559	1.1100e-003		0.0141	0.0141		0.0141	0.0141		222.6459	222.6459	4.2700e-003	4.0800e-003	223.9690
Total		0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3300e-003	237.8752

6.0 Area Detail

6.1 Mitigation Measures Area

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433
Unmitigated	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433

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	0.4713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7500e-003	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433
Total	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7500e-003	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433
Total	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433

7.0 Water Detail

7.1 Mitigation Measures Water

City of Gardena - Uhaul - Los Angeles-South Coast County, Summer

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

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

**City of Gardena - Uhaul
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	177.57	1000sqft	4.08	177,573.00	0
General Office Building	3.82	1000sqft	0.09	3,820.00	0
Hardware/Paint Store	4.18	1000sqft	0.03	4,180.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
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 - Operational Year: 2023

Land Use - 177,573 sf warehouse; 3,820 sf office building; 4,180 sf retail. Total acreage = 4.20 acres

Construction Phase - Construction schedule as provided by Project applicant.

Off-road Equipment -

Off-road Equipment - Project construction equipment provided by project applicant.

Off-road Equipment - Project construction equipment provided by project applicant.

Off-road Equipment - Project construction equipment provided by project applicant.

Off-road Equipment - Project construction equipment provided by project applicant.

Off-road Equipment -

Trips and VMT -

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

Demolition - Total of 43,267 s.f. of building demolished (per Project Applicant). See Trip generation provided by traffic consultant.

Grading - Import: 6100 cy; Export: 100 cy.

Vehicle Trips - Operational mobile trips provided by traffic consultant. 120 net new project trips daily = 0.675778412259 trips per 1000 square feet of warehouse uses per day. [120 net daily trips/177.573 sf of warehouse uses = 0.675778412259]

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Energy Use -

Construction Off-road Equipment Mitigation - Reductions include: Water Exposed Area 3 times daily; Unpaved Road Mitigation (Moisture Content at 12%; Vehicle Speed 15 MPH).

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Fleet Mix -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	8.00	45.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	230.00	240.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	PhaseEndDate	2/4/2022	2/28/2022
tblConstructionPhase	PhaseEndDate	2/16/2022	5/2/2022
tblConstructionPhase	PhaseEndDate	1/30/2023	5/15/2023
tblConstructionPhase	PhaseEndDate	1/4/2023	4/3/2023
tblConstructionPhase	PhaseEndDate	2/23/2023	6/26/2023
tblConstructionPhase	PhaseStartDate	2/5/2022	3/1/2022

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

tblConstructionPhase	PhaseStartDate	1/5/2023	4/4/2023
tblConstructionPhase	PhaseStartDate	2/17/2022	5/3/2022
tblConstructionPhase	PhaseStartDate	1/31/2023	5/16/2023
tblGrading	MaterialExported	0.00	6,100.00
tblGrading	MaterialImported	0.00	100.00
tblLandUse	LotAcreage	0.10	0.03
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	9.14	0.00
tblVehicleTrips	ST_TR	1.74	0.68
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	9.14	0.00
tblVehicleTrips	SU_TR	1.74	0.68
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	9.14	0.00
tblVehicleTrips	WD_TR	1.74	0.68

2.0 Emissions Summary

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2368	33.1338	21.5294	0.0464	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	4,565.3117	4,565.3117	1.1973	0.1901	4,625.5292
2023	57.5855	15.7804	19.2688	0.0398	1.0528	0.7108	1.7636	0.2836	0.6688	0.9524	0.0000	3,895.6754	3,895.6754	0.6476	0.1056	3,943.3327
Maximum	57.5855	33.1338	21.5294	0.0464	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	4,565.3117	4,565.3117	1.1973	0.1901	4,625.5292

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	3.2368	33.1338	21.5294	0.0464	7.8674	1.6139	9.4813	3.9933	1.4848	5.4781	0.0000	4,565.3117	4,565.3117	1.1973	0.1901	4,625.5292
2023	57.5855	15.7804	19.2688	0.0398	1.0528	0.7108	1.7636	0.2836	0.6688	0.9524	0.0000	3,895.6754	3,895.6754	0.6476	0.1056	3,943.3327
Maximum	57.5855	33.1338	21.5294	0.0464	7.8674	1.6139	9.4813	3.9933	1.4848	5.4781	0.0000	4,565.3117	4,565.3117	1.1973	0.1901	4,625.5292

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	57.34	0.00	51.61	59.03	0.00	48.94	0.00	0.00	0.00	0.00	0.00	0.00

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433
Energy	0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3400e-003	237.8752
Mobile	0.4164	0.5050	4.5707	0.0101	1.0827	7.4700e-003	1.0901	0.2884	6.9400e-003	0.2953		1,044.3303	1,044.3303	0.0684	0.0437	1,059.0743
Total	4.5855	0.7023	4.7552	0.0113	1.0827	0.0225	1.1052	0.2884	0.0220	0.3104		1,280.8410	1,280.8410	0.0731	0.0481	1,296.9928

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433
Energy	0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3400e-003	237.8752
Mobile	0.4164	0.5050	4.5707	0.0101	1.0827	7.4700e-003	1.0901	0.2884	6.9400e-003	0.2953		1,044.3303	1,044.3303	0.0684	0.0437	1,059.0743
Total	4.5855	0.7023	4.7552	0.0113	1.0827	0.0225	1.1052	0.2884	0.0220	0.3104		1,280.8410	1,280.8410	0.0731	0.0481	1,296.9928

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Site Preparation	Site Preparation	1/29/2022	2/28/2022	5	21	
3	Grading	Grading	3/1/2022	5/2/2022	5	45	
4	Building Construction	Building Construction	5/3/2022	4/3/2023	5	240	
5	Paving	Paving	4/4/2023	5/15/2023	5	30	
6	Architectural Coating	Architectural Coating	5/16/2023	6/26/2023	5	30	

Acres of Grading (Site Preparation Phase): 31.5

Acres of Grading (Grading Phase): 45

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 278,360; Non-Residential Outdoor: 92,787; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	775.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	197.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1295	0.0000	2.1295	0.3224	0.0000	0.3224			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	2.1295	1.2427	3.3722	0.3224	1.1553	1.4777		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0448	1.7214	0.3925	6.1200e-003	0.1724	0.0123	0.1847	0.0473	0.0118	0.0591		670.7605	670.7605	0.0356	0.1064	703.3651
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
Total	0.1004	1.7633	0.9353	7.5700e-003	0.3401	0.0134	0.3535	0.0917	0.0128	0.1045		818.5305	818.5305	0.0398	0.1104	852.4371

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.8305	0.0000	0.8305	0.1258	0.0000	0.1258			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	0.8305	1.2427	2.0732	0.1258	1.1553	1.2810	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Demolition - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0448	1.7214	0.3925	6.1200e-003	0.1724	0.0123	0.1847	0.0473	0.0118	0.0591		670.7605	670.7605	0.0356	0.1064	703.3651
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
Total	0.1004	1.7633	0.9353	7.5700e-003	0.3401	0.0134	0.3535	0.0917	0.0128	0.1045		818.5305	818.5305	0.0398	0.1104	852.4371

3.3 Site Preparation - 2022**Unmitigated Construction On-Site**

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

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
Total	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	7.6662	1.6126	9.2788	3.9400	1.4836	5.4235	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
Total	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0982	0.0000	7.0982	3.4271	0.0000	3.4271			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	7.0982	0.9409	8.0390	3.4271	0.8656	4.2927		2,872.0464	2,872.0464	0.9289		2,895.2684

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0783	3.0098	0.6863	0.0107	0.3015	0.0215	0.3230	0.0827	0.0206	0.1033		1,172.7906	1,172.7906	0.0622	0.1861	1,229.7980
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
Total	0.1339	3.0517	1.2291	0.0122	0.4691	0.0226	0.4917	0.1271	0.0216	0.1487		1,320.5605	1,320.5605	0.0664	0.1901	1,378.8700

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.7683	0.0000	2.7683	1.3366	0.0000	1.3366			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	2.7683	0.9409	3.7091	1.3366	0.8656	2.2022	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0783	3.0098	0.6863	0.0107	0.3015	0.0215	0.3230	0.0827	0.0206	0.1033		1,172.7906	1,172.7906	0.0622	0.1861	1,229.7980
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
Total	0.1339	3.0517	1.2291	0.0122	0.4691	0.0226	0.4917	0.1271	0.0216	0.1487		1,320.5605	1,320.5605	0.0664	0.1901	1,378.8700

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0583	1.5301	0.5213	5.8800e-003	0.1922	0.0141	0.2062	0.0553	0.0134	0.0688		631.6220	631.6220	0.0210	0.0911	659.2959
Worker	0.2853	0.2150	2.7864	7.4600e-003	0.8607	5.5200e-003	0.8662	0.2283	5.0800e-003	0.2333		758.5525	758.5525	0.0219	0.0206	765.2363
Total	0.3436	1.7451	3.3077	0.0133	1.0528	0.0196	1.0724	0.2836	0.0185	0.3021		1,390.1745	1,390.1745	0.0430	0.1117	1,424.5322

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0583	1.5301	0.5213	5.8800e-003	0.1922	0.0141	0.2062	0.0553	0.0134	0.0688		631.6220	631.6220	0.0210	0.0911	659.2959
Worker	0.2853	0.2150	2.7864	7.4600e-003	0.8607	5.5200e-003	0.8662	0.2283	5.0800e-003	0.2333		758.5525	758.5525	0.0219	0.0206	765.2363
Total	0.3436	1.7451	3.3077	0.0133	1.0528	0.0196	1.0724	0.2836	0.0185	0.3021		1,390.1745	1,390.1745	0.0430	0.1117	1,424.5322

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0334	1.2056	0.4601	5.5900e-003	0.1922	5.8200e-003	0.1980	0.0553	5.5700e-003	0.0609		601.8609	601.8609	0.0201	0.0866	628.1733
Worker	0.2649	0.1899	2.5647	7.2200e-003	0.8607	5.1900e-003	0.8659	0.2283	4.7800e-003	0.2330		738.6046	738.6046	0.0197	0.0190	744.7534
Total	0.2983	1.3955	3.0248	0.0128	1.0528	0.0110	1.0639	0.2836	0.0104	0.2939		1,340.4655	1,340.4655	0.0397	0.1056	1,372.9267

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0334	1.2056	0.4601	5.5900e-003	0.1922	5.8200e-003	0.1980	0.0553	5.5700e-003	0.0609		601.8609	601.8609	0.0201	0.0866	628.1733
Worker	0.2649	0.1899	2.5647	7.2200e-003	0.8607	5.1900e-003	0.8659	0.2283	4.7800e-003	0.2330		738.6046	738.6046	0.0197	0.0190	744.7534
Total	0.2983	1.3955	3.0248	0.0128	1.0528	0.0110	1.0639	0.2836	0.0104	0.2939		1,340.4655	1,340.4655	0.0397	0.1056	1,372.9267

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0688	0.0493	0.6662	1.8700e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		191.8453	191.8453	5.1100e-003	4.9300e-003	193.4424
Total	0.0688	0.0493	0.6662	1.8700e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		191.8453	191.8453	5.1100e-003	4.9300e-003	193.4424

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0688	0.0493	0.6662	1.8700e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		191.8453	191.8453	5.1100e-003	4.9300e-003	193.4424
Total	0.0688	0.0493	0.6662	1.8700e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		191.8453	191.8453	5.1100e-003	4.9300e-003	193.4424

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.3422					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	57.5339	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
Total	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	57.3422					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	57.5339	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
Total	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4164	0.5050	4.5707	0.0101	1.0827	7.4700e-003	1.0901	0.2884	6.9400e-003	0.2953		1,044.3303	1,044.3303	0.0684	0.0437	1,059.0743
Unmitigated	0.4164	0.5050	4.5707	0.0101	1.0827	7.4700e-003	1.0901	0.2884	6.9400e-003	0.2953		1,044.3303	1,044.3303	0.0684	0.0437	1,059.0743

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Hardware/Paint Store	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	120.00	120.00	120.00	514,286	514,286
Total	120.00	120.00	120.00	514,286	514,286

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
Hardware/Paint Store	16.60	8.40	6.90	13.60	67.40	19.00	45	29	26
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Hardware/Paint Store	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

Unrefrigerated Warehouse-No Rail	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
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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	0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3400e-003	237.8752
NaturalGas Unmitigated	0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3400e-003	237.8752

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	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					
General Office Building	94.7151	1.0200e-003	9.2900e-003	7.8000e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		11.1430	11.1430	2.1000e-004	2.0000e-004	11.2092
Hardware/Paint Store	22.7896	2.5000e-004	2.2300e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.6811	2.6811	5.0000e-005	5.0000e-005	2.6971
Unrefrigerated Warehouse-No Rail	1892.49	0.0204	0.1855	0.1559	1.1100e-003		0.0141	0.0141		0.0141	0.0141		222.6459	222.6459	4.2700e-003	4.0800e-003	223.9690
Total		0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3300e-003	237.8752

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	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					
General Office Building	0.0947151	1.0200e-003	9.2900e-003	7.8000e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		11.1430	11.1430	2.1000e-004	2.0000e-004	11.2092
Hardware/Paint Store	0.0227896	2.5000e-004	2.2300e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.6811	2.6811	5.0000e-005	5.0000e-005	2.6971
Unrefrigerated Warehouse-No Rail	1.89249	0.0204	0.1855	0.1559	1.1100e-003		0.0141	0.0141		0.0141	0.0141		222.6459	222.6459	4.2700e-003	4.0800e-003	223.9690
Total		0.0217	0.1971	0.1655	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.4700	236.4700	4.5300e-003	4.3300e-003	237.8752

6.0 Area Detail

6.1 Mitigation Measures Area

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433
Unmitigated	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433

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	0.4713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7500e-003	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433
Total	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7500e-003	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433
Total	4.1474	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0406	0.0406	1.1000e-004		0.0433

7.0 Water Detail

7.1 Mitigation Measures Water

City of Gardena - Uhaul - Los Angeles-South Coast County, Winter

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

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption	MPG (Derived)
Los Angeles (SC)	2022	All Other Buses	Aggregate	Aggregate	Diesel	1439.630159	79995.791	8.632077036	9.27
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	Gasoline	3413352.258	134926122	4849.433747	27.82
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	Diesel	10030.88054	301513.27	7.68728456	39.22
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	Gasoline	321949.9285	11615096.2	498.6836362	23.29
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	Diesel	144.7940175	2969.14062	0.12952193	22.92
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	Gasoline	1501511.569	61390140.7	2744.056413	22.37
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	Diesel	4360.211277	190690.307	6.383871994	29.87
Los Angeles (SC)	2022	LHD1	Aggregate	Aggregate	Gasoline	123039.4605	4764115.58	374.0892496	12.74
Los Angeles (SC)	2022	LHD1	Aggregate	Aggregate	Diesel	48774.90599	2108377.72	105.3080754	20.02
Los Angeles (SC)	2022	LHD2	Aggregate	Aggregate	Gasoline	18984.12158	698489.793	62.35473819	11.20
Los Angeles (SC)	2022	LHD2	Aggregate	Aggregate	Diesel	21545.40456	922900.747	55.04042276	16.77
Los Angeles (SC)	2022	MCY	Aggregate	Aggregate	Gasoline	139412.9629	907017.612	22.30089716	40.67
Los Angeles (SC)	2022	MDV	Aggregate	Aggregate	Gasoline	917463.4213	34478878.2	1888.492314	18.26
Los Angeles (SC)	2022	MDV	Aggregate	Aggregate	Diesel	10302.79397	407586.079	18.07237415	22.55
Los Angeles (SC)	2022	MH	Aggregate	Aggregate	Gasoline	16165.02676	152712.558	31.61055275	4.83
Los Angeles (SC)	2022	MH	Aggregate	Aggregate	Diesel	4996.117035	51480.9613	5.168237347	9.96
Los Angeles (SC)	2022	Motor Coach	Aggregate	Aggregate	Diesel	584.278175	83565.3803	15.21361481	5.49
Los Angeles (SC)	2022	OBUS	Aggregate	Aggregate	Gasoline	3918.131705	160387.64	32.42915447	4.95
Los Angeles (SC)	2022	PTO	Aggregate	Aggregate	Diesel	0	104572.532	21.78916982	4.80
Los Angeles (SC)	2022	SBUS	Aggregate	Aggregate	Gasoline	1293.494949	57034.9246	6.444742588	8.85
Los Angeles (SC)	2022	SBUS	Aggregate	Aggregate	Diesel	1680.355815	34286.5001	4.7087968	7.28
Los Angeles (SC)	2022	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	26.34731833	1766.87608	0.195429665	9.04
Los Angeles (SC)	2022	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	35.46336214	2423.83625	0.267362994	9.07
Los Angeles (SC)	2022	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	107.2638145	6333.55347	0.690661044	9.17
Los Angeles (SC)	2022	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	189.9883071	39688.2787	4.070558553	9.75
Los Angeles (SC)	2022	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	3716.125512	125893.711	14.3471878	8.77
Los Angeles (SC)	2022	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	3740.547626	130649.874	14.95249664	8.74
Los Angeles (SC)	2022	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	11523.59284	399596.488	45.56644936	8.77
Los Angeles (SC)	2022	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	2915.055937	160305.214	17.79384175	9.01
Los Angeles (SC)	2022	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	4788.223715	191521.222	21.80633739	8.78
Los Angeles (SC)	2022	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	10100.09564	446762.615	51.04084865	8.75
Los Angeles (SC)	2022	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	9225.154502	395911.822	45.06962983	8.78
Los Angeles (SC)	2022	T6 Instate Other Class 7	Aggregate	Aggregate	Diesel	4077.771295	199132.687	22.32274354	8.92
Los Angeles (SC)	2022	T6 Instate Tractor Class 6	Aggregate	Aggregate	Diesel	132.0606021	6594.43694	0.749047049	8.80
Los Angeles (SC)	2022	T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	1582.608171	96603.4587	10.23963462	9.43
Los Angeles (SC)	2022	T6 OOS Class 4	Aggregate	Aggregate	Diesel	15.12104755	1005.79745	0.111260464	9.04
Los Angeles (SC)	2022	T6 OOS Class 5	Aggregate	Aggregate	Diesel	20.2732849	1379.77323	0.152217958	9.06
Los Angeles (SC)	2022	T6 OOS Class 6	Aggregate	Aggregate	Diesel	61.45061842	3605.38692	0.393267935	9.17
Los Angeles (SC)	2022	T6 OOS Class 7	Aggregate	Aggregate	Diesel	103.8804547	26215.6462	2.685170868	9.76
Los Angeles (SC)	2022	T6 Public Class 4	Aggregate	Aggregate	Diesel	717.7189335	25307.9319	2.996261458	8.45
Los Angeles (SC)	2022	T6 Public Class 5	Aggregate	Aggregate	Diesel	486.993264	17113.8754	2.059068996	8.31
Los Angeles (SC)	2022	T6 Public Class 6	Aggregate	Aggregate	Diesel	635.0792157	21016.0642	2.559114669	8.21
Los Angeles (SC)	2022	T6 Public Class 7	Aggregate	Aggregate	Diesel	2728.077736	116695.182	13.86806469	8.41
Los Angeles (SC)	2022	T6 Utility Class 5	Aggregate	Aggregate	Diesel	639.5641142	26020.4076	2.848090198	9.14
Los Angeles (SC)	2022	T6 Utility Class 6	Aggregate	Aggregate	Diesel	121.41763	4887.35835	0.536083426	9.12
Los Angeles (SC)	2022	T6 Utility Class 7	Aggregate	Aggregate	Diesel	138.5378587	6785.88619	0.737980353	9.20
Los Angeles (SC)	2022	T6T5	Aggregate	Aggregate	Gasoline	15480.77769	831621.974	165.2602142	5.03
Los Angeles (SC)	2022	T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	6285.751683	1301133.37	215.2713999	6.04
Los Angeles (SC)	2022	T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	5650.833485	1544216.43	255.0176765	6.06
Los Angeles (SC)	2022	T7 NOOS Class 8	Aggregate	Aggregate	Diesel	2355.066263	560706.573	93.34094799	6.01
Los Angeles (SC)	2022	T7 POAK Class 8	Aggregate	Aggregate	Diesel	1.03944022	105.815485	0.018752476	5.64
Los Angeles (SC)	2022	T7 POLA Class 8	Aggregate	Aggregate	Diesel	7783.417735	1009419.61	170.4550633	5.92
Los Angeles (SC)	2022	T7 Public Class 8	Aggregate	Aggregate	Diesel	3835.471346	153115.695	27.03988059	5.66
Los Angeles (SC)	2022	T7 Single Concrete/Transit Mi	Aggregate	Aggregate	Diesel	705.0969085	48584.4293	8.163360755	5.95
Los Angeles (SC)	2022	T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1899.812852	112783.107	18.93788863	5.96
Los Angeles (SC)	2022	T7 Single Other Class 8	Aggregate	Aggregate	Diesel	5550.717709	327714.182	54.97748314	5.96
Los Angeles (SC)	2022	T7 SWCV Class 8	Aggregate	Aggregate	Diesel	1468.90476	95321.5925	36.70867711	2.60
Los Angeles (SC)	2022	T7 Tractor Class 8	Aggregate	Aggregate	Diesel	12923.9727	1066831.34	175.6133074	6.07
Los Angeles (SC)	2022	T7 Utility Class 8	Aggregate	Aggregate	Diesel	440.5727611	20649.3658	3.392281122	6.09
Los Angeles (SC)	2022	T7I5	Aggregate	Aggregate	Gasoline	63.26504384	3538.77394	0.917612822	3.86
Los Angeles (SC)	2022	UBUS	Aggregate	Aggregate	Gasoline	437.838433	31090.4048	6.793371968	4.58
Los Angeles (SC)	2022	UBUS	Aggregate	Aggregate	Diesel	10.8753054	1378.44508	0.230872999	5.97

On-road Mobile (Operational) Energy Usage

Note: Assumes that all vehicles that are generated as part of proposed project use gasoline as a fuel source (for simplicity), since the vast majority of vehicles generated by the project would use gasoline.

Unmitigated:

Step 1:

Therefore:

Average Daily VMT:

1,409 Note: Estimated via CalEEMod output (514,286 annual VMT, divided by 365 days per year).

Step 2:

Given:

Fleet Mix (CalEEMod Output)

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
54.48%	6.28%	18.75%	12.72%	2.31%	0.61%	1.05%	0.80%	0.09%	0.06%	2.44%	0.07%	0.34%

And:

Gasoline MPG Factors for each Vehicle Class - Year 2022 (EMFAC2021 Output)

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
27.82	23.29	22.37	18.26	12.74	11.20	N/A	N/A	4.95	4.58	40.67	8.85	4.83

Therefore:

Weighted Average MPG Factors

Gasoline: 24.5

Step 3:

Therefore:

57 daily gallons of gasoline

or

20,973 annual gallons of gasoline

Off-road (i.e. On-site) Mobile (Construction) Energy Usage

Note: For the sake of simplicity, and as a conservative estimation, it was assumed that all off-road vehicles use diesel fuel as an energy source. Demolition, Site preparation and grading off-road mobile vehicle on-site gallons of fuel are calculated below.

Given Factor:	128.7 metric tons	CO2	(provided in CalEEMod Output File)
Conversion Factor:	2204.6262 pounds	per metric ton	
Intermediate Result:	283,782 pounds	CO2	
Conversion Factor:	22.38 pounds	CO2 per 1 gallon of diesel fuel	Source: U.S. EIA, 2016
Final Result:	12,680 gallons	diesel fuel	http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11

Mitigated Onsite Scenario	Total CO2 (MT/yr) (provided in CalEEMod Output File)
Demolition	34.2289
Site Preparation	35.3952
Grading	59.0972

On-road Mobile (Construction) Energy Usage - Demolition

Note: Year 2020 MPG factors were derived for construction-related energy consumption (for the sake of a conservative est

Step 1: **Total Daily Worker Trips (CalEEMod output)**

15

Worker Trip Length (miles) (CalEEMod output)

14.7

Therefore:

Average Worker Daily VMT:

221

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMod)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class - Year 2020 (EMFAC2021 output)

LDA	LDT1	LDT2
27.82	23.29	22.37

Therefore:

Weighted Average Worker MPG Factor

25.33

Step 3: **Therefore:**

9 Worker daily gallons of gasoline (all workers)

Step 4: 20 # of Days (CalEEMod output)

Therefore:

Result: 174 Total gallons of gasoline (all workers)

On-road Mobile (Construction) Energy Usage - Site Preparation

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

18

Worker Trip Length (miles) (CalEEMod Output)

14.7

Therefore:

Average Worker Daily VMT:

265

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2020

LDA	LDT1	LDT2
27.82	23.29	22.37

Therefore:

Weighted Average Worker MPG Factor

25.33

Step 3: **Therefore:**

10 Worker daily gallons of gasoline

Step 4: 21 # of Days (CalEEMod Output)

Therefore:

Result: 219 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Grading

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

15

Worker Trip Length (miles) (CalEEMod Output)

14.7

Therefore:

Average Worker Daily VMT:

221

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2020

LDA	LDT1	LDT2
27.82	23.29	22.37

Therefore:

Weighted Average Worker MPG Factor

25.33

Step 3: **Therefore:**

9 Worker daily gallons of gasoline

Step 4: 45 # of Days (CalEEMod Output)

Therefore:

Result: 392 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Building Construction

Step 1: **Total Daily Worker Trips (CalEEMod Output)** **Total Daily Vendor Trips (CalEEMod Output)**
77 30

Worker Trip Length (miles) (CalEEMod Output) **Vendor Trip Length (miles) (CalEEMod Output)**
14.7 6.9

Therefore:

Average Worker Daily VMT:
1,132

Average Vendor Daily VMT:
207

Step 2: Given: **Assumed Fleet Mix for Workers** (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2	Fleet Mix for Workers (CalEEMod Output)
0.5	0.25	0.25	MHD
Assumed Fleet Mix for Vendors			HHD
			0% 100%

And:

MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2020

Gasoline:

LDA	LDT1	LDT2
27.82	23.29	22.37

Diesel:

MHD	HHD
8.49	6.14

Therefore:

Weighted Average Worker (Gasoline) MPG Factor
25.33

Weighted Average Vendor (Diesel) MPG Factor
6.14

Step 3: **Therefore:**
45 Worker daily gallons of gasoline

Therefore:
34 Vendor daily gallons of diesel

Step 4: 240 # of Days (CalEEMod Output)

Therefore:

10,727 Total gallons of gasoline

Therefore:

8,090 Total gallons of diesel

On-road Mobile (Construction) Energy Usage - Paving

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

20

Worker Trip Length (miles) (CalEEMod Output)

14.7

Therefore:

Average Worker Daily VMT:

294

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2020

LDA	LDT1	LDT2
27.82	23.29	22.37

Therefore:

Weighted Average Worker MPG Factor

25.3

Step 3: **Therefore:**

12 Worker daily gallons of gasoline

Step 4: 30 # of Days (CalEEMod Output)

Therefore:

Result: 348 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Architectural Coating

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

15

Worker Trip Length (miles) (CalEEMod Output)

14.7

Therefore:

Average Worker Daily VMT:

221

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2020

LDA	LDT1	LDT2
27.82	23.29	22.37

Therefore:

Weighted Average Worker MPG Factor

25.3

Step 3: **Therefore:**

9 Worker daily gallons of gasoline

Step 4: 30 # of Days (CalEEMod Output)

Therefore:

Result: 261 Total gallons of gasoline