Appendix A
Air Quality and Greenhouse Gas Emissions – CalEEMod Results

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

CommuniCare Health Services Expansion

Yolo/Solano AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	17.66	1000sqft	0.41	17,660.00	0
Parking Lot	70.00	Space	0.63	28,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	55
Climate Zone	2			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Demolition not required. Architectural coating adjusted to occur concurrently with building construction.

Vehicle Trips - Daily trip generation adjusted to match project-specific traffic report (KDA 2022)

Grading - 4,000 CY of import assumed

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	200.00
tblGrading	MaterialImported	0.00	4,000.00
tblVehicleTrips	ST_TR	8.57	31.86
tblVehicleTrips	SU_TR	1.42	31.86

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

tblVehicleTrips	WD_TR	34.80	31.86

2.0 Emissions Summary

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1631	1.0053	1.0833	2.1500e-003	0.0385	0.0432	0.0817	0.0147	0.0417	0.0564	0.0000	182.3078	182.3078	0.0258	3.8300e-003	184.0930
2024	0.0743	0.4096	0.4833	9.0000e-004	6.2400e-003	0.0168	0.0230	1.6900e-003	0.0162	0.0179	0.0000	75.4139	75.4139	0.0103	7.2000e-004	75.8854
Maximum	**0.1631**	**1.0053**	**1.0833**	**2.1500e-003**	**0.0385**	**0.0432**	**0.0817**	**0.0147**	**0.0417**	**0.0564**	**0.0000**	**182.3078**	**182.3078**	**0.0258**	**3.8300e-003**	**184.0930**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1631	1.0053	1.0833	2.1500e-003	0.0385	0.0432	0.0817	0.0147	0.0417	0.0564	0.0000	182.3076	182.3076	0.0258	3.8300e-003	184.0928
2024	0.0743	0.4096	0.4833	9.0000e-004	6.2400e-003	0.0168	0.0230	1.6900e-003	0.0162	0.0179	0.0000	75.4139	75.4139	0.0103	7.2000e-004	75.8854
Maximum	**0.1631**	**1.0053**	**1.0833**	**2.1500e-003**	**0.0385**	**0.0432**	**0.0817**	**0.0147**	**0.0417**	**0.0564**	**0.0000**	**182.3076**	**182.3076**	**0.0258**	**3.8300e-003**	**184.0928**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2023**	**8-31-2023**	0.4932	0.4932
2	**9-1-2023**	**11-30-2023**	0.5095	0.5095
3	**12-1-2023**	**2-29-2024**	0.4915	0.4915
4	**3-1-2024**	**5-31-2024**	0.1581	0.1581
		Highest	0.5095	0.5095

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	0.0764	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5700e-003	1.5700e-003	0.0000	0.0000	1.6700e-003
Energy	1.5500e-003	0.0141	0.0119	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	32.0521	32.0521	2.9900e-003	6.1000e-004	32.3084
Mobile	0.2439	0.3171	1.9373	3.7000e-003	0.3540	3.3100e-003	0.3573	0.0948	3.1100e-003	0.0979	0.0000	347.4900	347.4900	0.0272	0.0211	354.4712
Waste						0.0000	0.0000		0.0000	0.0000	38.7165	0.0000	38.7165	2.2881	0.0000	95.9184
Water						0.0000	0.0000		0.0000	0.0000	0.7030	1.2461	1.9491	0.0724	1.7300e-003	4.2748
Total	**0.3218**	**0.3312**	**1.9500**	**3.7800e-003**	**0.3540**	**4.3800e-003**	**0.3584**	**0.0948**	**4.1800e-003**	**0.0989**	**39.4195**	**380.7898**	**420.2093**	**2.3907**	**0.0235**	**486.9745**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0764	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5700e-003	1.5700e-003	0.0000	0.0000	1.6700e-003
Energy	1.5500e-003	0.0141	0.0119	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	32.0521	32.0521	2.9900e-003	6.1000e-004	32.3084
Mobile	0.2439	0.3171	1.9373	3.7000e-003	0.3540	3.3100e-003	0.3573	0.0948	3.1100e-003	0.0979	0.0000	347.4900	347.4900	0.0272	0.0211	354.4712
Waste						0.0000	0.0000		0.0000	0.0000	38.7165	0.0000	38.7165	2.2881	0.0000	95.9184
Water						0.0000	0.0000		0.0000	0.0000	0.7030	1.2461	1.9491	0.0724	1.7300e-003	4.2748
Total	**0.3218**	**0.3312**	**1.9500**	**3.7800e-003**	**0.3540**	**4.3800e-003**	**0.3584**	**0.0948**	**4.1800e-003**	**0.0989**	**39.4195**	**380.7898**	**420.2093**	**2.3907**	**0.0235**	**486.9745**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/2/2023	5	2	
2	Grading	Grading	6/3/2023	6/8/2023	5	4	
3	Paving	Paving	6/9/2023	6/22/2023	5	10	

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

4	Building Construction	Building Construction	6/23/2023	3/28/2024	5	200	
5	Architectural Coating	Architectural Coating	7/7/2023	4/11/2024	5	200	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.63

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 26,490; Non-Residential Outdoor: 8,830; Striped Parking Area: 1,680 (Architectural Coating – sqft)

OffRoad Equipment

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

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	500.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	17.00	7.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.2700e-003	0.0000	6.2700e-003	3.0000e-003	0.0000	3.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1300e-003	0.0124	6.6400e-003	2.0000e-005		5.1000e-004	5.1000e-004		4.7000e-004	4.7000e-004	0.0000	1.5114	1.5114	4.9000e-004	0.0000	1.5236
Total	**1.1300e-003**	**0.0124**	**6.6400e-003**	**2.0000e-005**	**6.2700e-003**	**5.1000e-004**	**6.7800e-003**	**3.0000e-003**	**4.7000e-004**	**3.4700e-003**	**0.0000**	**1.5114**	**1.5114**	**4.9000e-004**	**0.0000**	**1.5236**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0478	0.0478	0.0000	0.0000	0.0483
Total	**2.0000e-005**	**1.0000e-005**	**1.7000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0478**	**0.0478**	**0.0000**	**0.0000**	**0.0483**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.2700e-003	0.0000	6.2700e-003	3.0000e-003	0.0000	3.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1300e-003	0.0124	6.6400e-003	2.0000e-005		5.1000e-004	5.1000e-004		4.7000e-004	4.7000e-004	0.0000	1.5114	1.5114	4.9000e-004	0.0000	1.5236
Total	**1.1300e-003**	**0.0124**	**6.6400e-003**	**2.0000e-005**	**6.2700e-003**	**5.1000e-004**	**6.7800e-003**	**3.0000e-003**	**4.7000e-004**	**3.4700e-003**	**0.0000**	**1.5114**	**1.5114**	**4.9000e-004**	**0.0000**	**1.5236**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0478	0.0478	0.0000	0.0000	0.0483
Total	**2.0000e-005**	**1.0000e-005**	**1.7000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0478**	**0.0478**	**0.0000**	**0.0000**	**0.0483**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0144	0.0000	0.0144	6.8800e-003	0.0000	6.8800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6700e-003	0.0289	0.0174	4.0000e-005		1.2100e-003	1.2100e-003		1.1100e-003	1.1100e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	**2.6700e-003**	**0.0289**	**0.0174**	**4.0000e-005**	**0.0144**	**1.2100e-003**	**0.0156**	**6.8800e-003**	**1.1100e-003**	**7.9900e-003**	**0.0000**	**3.6208**	**3.6208**	**1.1700e-003**	**0.0000**	**3.6501**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0317	6.9900e-003	1.5000e-004	4.2500e-003	2.9000e-004	4.5400e-003	1.1700e-003	2.8000e-004	1.4500e-003	0.0000	14.3818	14.3818	3.0000e-005	2.2600e-003	15.0561
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	4.2000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1196	0.1196	0.0000	0.0000	0.1206
Total	**6.2000e-004**	**0.0318**	**7.4100e-003**	**1.5000e-004**	**4.4000e-003**	**2.9000e-004**	**4.6900e-003**	**1.2100e-003**	**2.8000e-004**	**1.4900e-003**	**0.0000**	**14.5014**	**14.5014**	**3.0000e-005**	**2.2600e-003**	**15.1768**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0144	0.0000	0.0144	6.8800e-003	0.0000	6.8800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6700e-003	0.0289	0.0174	4.0000e-005		1.2100e-003	1.2100e-003		1.1100e-003	1.1100e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	**2.6700e-003**	**0.0289**	**0.0174**	**4.0000e-005**	**0.0144**	**1.2100e-003**	**0.0156**	**6.8800e-003**	**1.1100e-003**	**7.9900e-003**	**0.0000**	**3.6208**	**3.6208**	**1.1700e-003**	**0.0000**	**3.6501**

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

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0317	6.9900e-003	1.5000e-004	4.2500e-003	2.9000e-004	4.5400e-003	1.1700e-003	2.8000e-004	1.4500e-003	0.0000	14.3818	14.3818	3.0000e-005	2.2600e-003	15.0561
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	4.2000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1196	0.1196	0.0000	0.0000	0.1206
Total	**6.2000e-004**	**0.0318**	**7.4100e-003**	**1.5000e-004**	**4.4000e-003**	**2.9000e-004**	**4.6900e-003**	**1.2100e-003**	**2.8000e-004**	**1.4900e-003**	**0.0000**	**14.5014**	**14.5014**	**3.0000e-005**	**2.2600e-003**	**15.1768**

3.4 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	3.2200e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329
Paving	8.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.0500e-003**	**0.0312**	**0.0440**	**7.0000e-005**		**1.5400e-003**	**1.5400e-003**		**1.4200e-003**	**1.4200e-003**	**0.0000**	**5.8862**	**5.8862**	**1.8700e-003**	**0.0000**	**5.9329**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

3.4 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.1000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3886	0.3886	1.0000e-005	1.0000e-005	0.3921
Total	**1.7000e-004**	**1.1000e-004**	**1.3700e-003**	**0.0000**	**4.8000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3886**	**0.3886**	**1.0000e-005**	**1.0000e-005**	**0.3921**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2200e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329
Paving	8.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.0500e-003**	**0.0312**	**0.0440**	**7.0000e-005**		**1.5400e-003**	**1.5400e-003**		**1.4200e-003**	**1.4200e-003**	**0.0000**	**5.8862**	**5.8862**	**1.8700e-003**	**0.0000**	**5.9329**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

3.4 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.1000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3886	0.3886	1.0000e-005	1.0000e-005	0.3921
Total	**1.7000e-004**	**1.1000e-004**	**1.3700e-003**	**0.0000**	**4.8000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3886**	**0.3886**	**1.0000e-005**	**1.0000e-005**	**0.3921**

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	0.1036	0.7963	0.8576	1.5000e-003		0.0350	0.0350		0.0338	0.0338	0.0000	123.4874	123.4874	0.0210	0.0000	124.0116
Total	**0.1036**	**0.7963**	**0.8576**	**1.5000e-003**		**0.0350**	**0.0350**		**0.0338**	**0.0338**	**0.0000**	**123.4874**	**123.4874**	**0.0210**	**0.0000**	**124.0116**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	0.0202	6.3300e-003	9.0000e-005	3.0100e-003	1.2000e-004	3.1300e-003	8.7000e-004	1.2000e-004	9.9000e-004	0.0000	8.7384	8.7384	2.0000e-005	1.3300e-003	9.1352
Worker	3.0700e-003	1.9800e-003	0.0243	7.0000e-005	8.5100e-003	4.0000e-005	8.5500e-003	2.2600e-003	4.0000e-005	2.3000e-003	0.0000	6.9104	6.9104	2.1000e-004	1.9000e-004	6.9729
Total	**3.5600e-003**	**0.0222**	**0.0306**	**1.6000e-004**	**0.0115**	**1.6000e-004**	**0.0117**	**3.1300e-003**	**1.6000e-004**	**3.2900e-003**	**0.0000**	**15.6489**	**15.6489**	**2.3000e-004**	**1.5200e-003**	**16.1081**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1036	0.7963	0.8576	1.5000e-003		0.0350	0.0350		0.0338	0.0338	0.0000	123.4873	123.4873	0.0210	0.0000	124.0115
Total	**0.1036**	**0.7963**	**0.8576**	**1.5000e-003**		**0.0350**	**0.0350**		**0.0338**	**0.0338**	**0.0000**	**123.4873**	**123.4873**	**0.0210**	**0.0000**	**124.0115**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	0.0202	6.3300e-003	9.0000e-005	3.0100e-003	1.2000e-004	3.1300e-003	8.7000e-004	1.2000e-004	9.9000e-004	0.0000	8.7384	8.7384	2.0000e-005	1.3300e-003	9.1352
Worker	3.0700e-003	1.9800e-003	0.0243	7.0000e-005	8.5100e-003	4.0000e-005	8.5500e-003	2.2600e-003	4.0000e-005	2.3000e-003	0.0000	6.9104	6.9104	2.1000e-004	1.9000e-004	6.9729
Total	**3.5600e-003**	**0.0222**	**0.0306**	**1.6000e-004**	**0.0115**	**1.6000e-004**	**0.0117**	**3.1300e-003**	**1.6000e-004**	**3.2900e-003**	**0.0000**	**15.6489**	**15.6489**	**2.3000e-004**	**1.5200e-003**	**16.1081**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0454	0.3540	0.4006	7.1000e-004		0.0144	0.0144		0.0139	0.0139	0.0000	58.1156	58.1156	9.6800e-003	0.0000	58.3576
Total	**0.0454**	**0.3540**	**0.4006**	**7.1000e-004**		**0.0144**	**0.0144**		**0.0139**	**0.0139**	**0.0000**	**58.1156**	**58.1156**	**9.6800e-003**	**0.0000**	**58.3576**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	9.4800e-003	2.9100e-003	4.0000e-005	1.4200e-003	6.0000e-005	1.4700e-003	4.1000e-004	6.0000e-005	4.7000e-004	0.0000	4.0350	4.0350	1.0000e-005	6.1000e-004	4.2183
Worker	1.3500e-003	8.3000e-004	0.0107	3.0000e-005	4.0000e-003	2.0000e-005	4.0200e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.1696	3.1696	9.0000e-005	8.0000e-005	3.1969
Total	**1.5800e-003**	**0.0103**	**0.0136**	**7.0000e-005**	**5.4200e-003**	**8.0000e-005**	**5.4900e-003**	**1.4700e-003**	**8.0000e-005**	**1.5500e-003**	**0.0000**	**7.2046**	**7.2046**	**1.0000e-004**	**6.9000e-004**	**7.4152**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0454	0.3540	0.4006	7.1000e-004		0.0144	0.0144		0.0139	0.0139	0.0000	58.1155	58.1155	9.6800e-003	0.0000	58.3575
Total	**0.0454**	**0.3540**	**0.4006**	**7.1000e-004**		**0.0144**	**0.0144**		**0.0139**	**0.0139**	**0.0000**	**58.1155**	**58.1155**	**9.6800e-003**	**0.0000**	**58.3575**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	9.4800e-003	2.9100e-003	4.0000e-005	1.4200e-003	6.0000e-005	1.4700e-003	4.1000e-004	6.0000e-005	4.7000e-004	0.0000	4.0350	4.0350	1.0000e-005	6.1000e-004	4.2183
Worker	1.3500e-003	8.3000e-004	0.0107	3.0000e-005	4.0000e-003	2.0000e-005	4.0200e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.1696	3.1696	9.0000e-005	8.0000e-005	3.1969
Total	**1.5800e-003**	**0.0103**	**0.0136**	**7.0000e-005**	**5.4200e-003**	**8.0000e-005**	**5.4900e-003**	**1.4700e-003**	**8.0000e-005**	**1.5500e-003**	**0.0000**	**7.2046**	**7.2046**	**1.0000e-004**	**6.9000e-004**	**7.4152**

3.6 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	0.0347					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.0821	0.1141	1.9000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	16.0855	16.0855	9.6000e-004	0.0000	16.1096
Total	**0.0468**	**0.0821**	**0.1141**	**1.9000e-004**		**4.4600e-003**	**4.4600e-003**		**4.4600e-003**	**4.4600e-003**	**0.0000**	**16.0855**	**16.0855**	**9.6000e-004**	**0.0000**	**16.1096**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.2000e-004	3.9700e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1298	1.1298	3.0000e-005	3.0000e-005	1.1400
Total	**5.0000e-004**	**3.2000e-004**	**3.9700e-003**	**1.0000e-005**	**1.3900e-003**	**1.0000e-005**	**1.4000e-003**	**3.7000e-004**	**1.0000e-005**	**3.8000e-004**	**0.0000**	**1.1298**	**1.1298**	**3.0000e-005**	**3.0000e-005**	**1.1400**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0347					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.0821	0.1141	1.9000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	16.0855	16.0855	9.6000e-004	0.0000	16.1095
Total	**0.0468**	**0.0821**	**0.1141**	**1.9000e-004**		**4.4600e-003**	**4.4600e-003**		**4.4600e-003**	**4.4600e-003**	**0.0000**	**16.0855**	**16.0855**	**9.6000e-004**	**0.0000**	**16.1095**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.2000e-004	3.9700e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1298	1.1298	3.0000e-005	3.0000e-005	1.1400
Total	**5.0000e-004**	**3.2000e-004**	**3.9700e-003**	**1.0000e-005**	**1.3900e-003**	**1.0000e-005**	**1.4000e-003**	**3.7000e-004**	**1.0000e-005**	**3.8000e-004**	**0.0000**	**1.1298**	**1.1298**	**3.0000e-005**	**3.0000e-005**	**1.1400**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6900e-003	0.0451	0.0670	1.1000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	9.4470	9.4470	5.3000e-004	0.0000	9.4603
Total	**0.0271**	**0.0451**	**0.0670**	**1.1000e-004**		**2.2500e-003**	**2.2500e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**9.4470**	**9.4470**	**5.3000e-004**	**0.0000**	**9.4603**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.7000e-004	2.1800e-003	1.0000e-005	8.2000e-004	0.0000	8.2000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6467	0.6467	2.0000e-005	2.0000e-005	0.6523
Total	**2.7000e-004**	**1.7000e-004**	**2.1800e-003**	**1.0000e-005**	**8.2000e-004**	**0.0000**	**8.2000e-004**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.6467**	**0.6467**	**2.0000e-005**	**2.0000e-005**	**0.6523**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6900e-003	0.0451	0.0670	1.1000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	9.4470	9.4470	5.3000e-004	0.0000	9.4603
Total	**0.0271**	**0.0451**	**0.0670**	**1.1000e-004**		**2.2500e-003**	**2.2500e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**9.4470**	**9.4470**	**5.3000e-004**	**0.0000**	**9.4603**

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

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.7000e-004	2.1800e-003	1.0000e-005	8.2000e-004	0.0000	8.2000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6467	0.6467	2.0000e-005	2.0000e-005	0.6523
Total	**2.7000e-004**	**1.7000e-004**	**2.1800e-003**	**1.0000e-005**	**8.2000e-004**	**0.0000**	**8.2000e-004**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.6467**	**0.6467**	**2.0000e-005**	**2.0000e-005**	**0.6523**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2439	0.3171	1.9373	3.7000e-003	0.3540	3.3100e-003	0.3573	0.0948	3.1100e-003	0.0979	0.0000	347.4900	347.4900	0.0272	0.0211	354.4712
Unmitigated	0.2439	0.3171	1.9373	3.7000e-003	0.3540	3.3100e-003	0.3573	0.0948	3.1100e-003	0.0979	0.0000	347.4900	347.4900	0.0272	0.0211	354.4712

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	562.65	562.65	562.65	950,392	950,392
Parking Lot	0.00	0.00	0.00		
Total	562.65	562.65	562.65	950,392	950,392

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	10.00	5.00	7.00	29.60	51.40	19.00	60	30	10
Parking Lot	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020
Parking Lot	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020

5.0 Energy Detail

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

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	16.6909	16.6909	2.7000e-003	3.3000e-004	16.8559
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.6909	16.6909	2.7000e-003	3.3000e-004	16.8559
NaturalGas Mitigated	1.5500e-003	0.0141	0.0119	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	15.3612	15.3612	2.9000e-004	2.8000e-004	15.4525
NaturalGas Unmitigated	1.5500e-003	0.0141	0.0119	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	15.3612	15.3612	2.9000e-004	2.8000e-004	15.4525

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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	tons/yr										MT/yr					
Medical Office Building	287858	1.5500e-003	0.0141	0.0119	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	15.3612	15.3612	2.9000e-004	2.8000e-004	15.4525
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.5500e-003**	**0.0141**	**0.0119**	**8.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**15.3612**	**15.3612**	**2.9000e-004**	**2.8000e-004**	**15.4525**

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					
Medical Office Building	287858	1.5500e-003	0.0141	0.0119	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	15.3612	15.3612	2.9000e-004	2.8000e-004	15.4525
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.5500e-003**	**0.0141**	**0.0119**	**8.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**15.3612**	**15.3612**	**2.9000e-004**	**2.8000e-004**	**15.4525**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	170596	15.7842	2.5500e-003	3.1000e-004	15.9402
Parking Lot	9800	0.9067	1.5000e-004	2.0000e-005	0.9157
Total		**16.6909**	**2.7000e-003**	**3.3000e-004**	**16.8559**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	170596	15.7842	2.5500e-003	3.1000e-004	15.9402
Parking Lot	9800	0.9067	1.5000e-004	2.0000e-005	0.9157
Total		**16.6909**	**2.7000e-003**	**3.3000e-004**	**16.8559**

6.0 Area Detail

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0764	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5700e-003	1.5700e-003	0.0000	0.0000	1.6700e-003
Unmitigated	0.0764	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5700e-003	1.5700e-003	0.0000	0.0000	1.6700e-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	5.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5700e-003	1.5700e-003	0.0000	0.0000	1.6700e-003
Total	**0.0764**	**1.0000e-005**	**8.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.5700e-003**	**1.5700e-003**	**0.0000**	**0.0000**	**1.6700e-003**

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	5.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	8.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5700e-003	1.5700e-003	0.0000	0.0000	1.6700e-003
Total	**0.0764**	**1.0000e-005**	**8.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.5700e-003**	**1.5700e-003**	**0.0000**	**0.0000**	**1.6700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, 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	1.9491	0.0724	1.7300e-003	4.2748
Unmitigated	1.9491	0.0724	1.7300e-003	4.2748

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	2.21599 / 0.422093	1.9491	0.0724	1.7300e-003	4.2748
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.9491**	**0.0724**	**1.7300e-003**	**4.2748**

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			
Medical Office Building	2.21599 / 0.422093	1.9491	0.0724	1.7300e-003	4.2748
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.9491**	**0.0724**	**1.7300e-003**	**4.2748**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	38.7165	2.2881	0.0000	95.9184
Unmitigated	38.7165	2.2881	0.0000	95.9184

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Medical Office Building	190.73	38.7165	2.2881	0.0000	95.9184
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**38.7165**	**2.2881**	**0.0000**	**95.9184**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Medical Office Building	190.73	38.7165	2.2881	0.0000	95.9184
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**38.7165**	**2.2881**	**0.0000**	**95.9184**

9.0 Operational Offroad

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Annual

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

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

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

CommuniCare Health Services Expansion

Yolo/Solano AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	17.66	1000sqft	0.41	17,660.00	0
Parking Lot	70.00	Space	0.63	28,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	55
Climate Zone	2			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Demolition not required. Architectural coating adjusted to occur concurrently with building construction.

Vehicle Trips - Daily trip generation adjusted to match project-specific traffic report (KDA 2022)

Grading - 4,000 CY of import assumed

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	200.00
tblGrading	MaterialImported	0.00	4,000.00
tblVehicleTrips	ST_TR	8.57	31.86
tblVehicleTrips	SU_TR	1.42	31.86

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

tblVehicleTrips	WD_TR	34.80	31.86

2.0 Emissions Summary

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.3342	29.4790	14.9914	0.0961	9.4587	0.7499	10.2086	4.0615	0.6952	4.7567	0.0000	9,989.3975	9,989.3975	0.6631	1.2468	10,377.5180
2024	2.2155	12.5917	14.8613	0.0277	0.1976	0.5141	0.7117	0.0534	0.4981	0.5516	0.0000	2,561.9989	2,561.9989	0.3530	0.0243	2,578.0726
Maximum	**2.3342**	**29.4790**	**14.9914**	**0.0961**	**9.4587**	**0.7499**	**10.2086**	**4.0615**	**0.6952**	**4.7567**	**0.0000**	**9,989.3975**	**9,989.3975**	**0.6631**	**1.2468**	**10,377.5180**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.3342	29.4790	14.9914	0.0961	9.4587	0.7499	10.2086	4.0615	0.6952	4.7567	0.0000	9,989.3975	9,989.3975	0.6631	1.2468	10,377.5180
2024	2.2155	12.5917	14.8613	0.0277	0.1976	0.5141	0.7117	0.0534	0.4981	0.5516	0.0000	2,561.9988	2,561.9988	0.3530	0.0243	2,578.0726
Maximum	**2.3342**	**29.4790**	**14.9914**	**0.0961**	**9.4587**	**0.7499**	**10.2086**	**4.0615**	**0.6952**	**4.7567**	**0.0000**	**9,989.3975**	**9,989.3975**	**0.6631**	**1.2468**	**10,377.5180**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, 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	N20	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

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4188	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Energy	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340
Mobile	1.6415	1.6105	10.8661	0.0216	2.0101	0.0182	2.0283	0.5366	0.0171	0.5537		2,235.4604	2,235.4604	0.1537	0.1232	2,276.0013
Total	**2.0689**	**1.6879**	**10.9400**	**0.0220**	**2.0101**	**0.0241**	**2.0342**	**0.5366**	**0.0230**	**0.5596**		**2,328.2621**	**2,328.2621**	**0.1555**	**0.1249**	**2,369.3557**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4188	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Energy	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340
Mobile	1.6415	1.6105	10.8661	0.0216	2.0101	0.0182	2.0283	0.5366	0.0171	0.5537		2,235.4604	2,235.4604	0.1537	0.1232	2,276.0013
Total	**2.0689**	**1.6879**	**10.9400**	**0.0220**	**2.0101**	**0.0241**	**2.0342**	**0.5366**	**0.0230**	**0.5596**		**2,328.2621**	**2,328.2621**	**0.1555**	**0.1249**	**2,369.3557**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/2/2023	5	2	
2	Grading	Grading	6/3/2023	6/8/2023	5	4	
3	Paving	Paving	6/9/2023	6/22/2023	5	10	
4	Building Construction	Building Construction	6/23/2023	3/28/2024	5	200	
5	Architectural Coating	Architectural Coating	7/7/2023	4/11/2024	5	200	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.63

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 26,490; Non-Residential Outdoor: 8,830; Striped Parking Area: 1,680 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	500.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	17.00	7.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668		1,666.0573	1,666.0573	0.5388		1,679.5282
Total	**1.1339**	**12.4250**	**6.6420**	**0.0172**	**6.2662**	**0.5074**	**6.7736**	**3.0041**	**0.4668**	**3.4709**		**1,666.0573**	**1,666.0573**	**0.5388**		**1,679.5282**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0245	0.0124	0.1910	5.6000e-004	0.0609	3.1000e-004	0.0612	0.0161	2.8000e-004	0.0164		57.3700	57.3700	1.5000e-003	1.3700e-003	57.8158
Total	**0.0245**	**0.0124**	**0.1910**	**5.6000e-004**	**0.0609**	**3.1000e-004**	**0.0612**	**0.0161**	**2.8000e-004**	**0.0164**		**57.3700**	**57.3700**	**1.5000e-003**	**1.3700e-003**	**57.8158**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282
Total	**1.1339**	**12.4250**	**6.6420**	**0.0172**	**6.2662**	**0.5074**	**6.7736**	**3.0041**	**0.4668**	**3.4709**	**0.0000**	**1,666.0573**	**1,666.0573**	**0.5388**		**1,679.5282**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0245	0.0124	0.1910	5.6000e-004	0.0609	3.1000e-004	0.0612	0.0161	2.8000e-004	0.0164		57.3700	57.3700	1.5000e-003	1.3700e-003	57.8158
Total	**0.0245**	**0.0124**	**0.1910**	**5.6000e-004**	**0.0609**	**3.1000e-004**	**0.0612**	**0.0161**	**2.8000e-004**	**0.0164**		**57.3700**	**57.3700**	**1.5000e-003**	**1.3700e-003**	**57.8158**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1957	0.0000	7.1957	3.4419	0.0000	3.4419			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	**1.3330**	**14.4676**	**8.7038**	**0.0206**	**7.1957**	**0.6044**	**7.8000**	**3.4419**	**0.5560**	**3.9979**		**1,995.6147**	**1,995.6147**	**0.6454**		**2,011.7503**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2925	14.9959	3.4656	0.0748	2.1870	0.1451	2.3321	0.5995	0.1388	0.7383		7,922.0703	7,922.0703	0.0158	1.2451	8,293.4979
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0306	0.0155	0.2387	7.0000e-004	0.0761	3.9000e-004	0.0765	0.0202	3.6000e-004	0.0205		71.7126	71.7126	1.8800e-003	1.7100e-003	72.2697
Total	**0.3231**	**15.0113**	**3.7043**	**0.0755**	**2.2630**	**0.1455**	**2.4085**	**0.6197**	**0.1392**	**0.7589**		**7,993.7828**	**7,993.7828**	**0.0177**	**1.2468**	**8,365.7677**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1957	0.0000	7.1957	3.4419	0.0000	3.4419			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	**1.3330**	**14.4676**	**8.7038**	**0.0206**	**7.1957**	**0.6044**	**7.8000**	**3.4419**	**0.5560**	**3.9979**	**0.0000**	**1,995.6147**	**1,995.6147**	**0.6454**		**2,011.7503**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2925	14.9959	3.4656	0.0748	2.1870	0.1451	2.3321	0.5995	0.1388	0.7383		7,922.0703	7,922.0703	0.0158	1.2451	8,293.4979
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0306	0.0155	0.2387	7.0000e-004	0.0761	3.9000e-004	0.0765	0.0202	3.6000e-004	0.0205		71.7126	71.7126	1.8800e-003	1.7100e-003	72.2697
Total	**0.3231**	**15.0113**	**3.7043**	**0.0755**	**2.2630**	**0.1455**	**2.4085**	**0.6197**	**0.1392**	**0.7589**		**7,993.7828**	**7,993.7828**	**0.0177**	**1.2468**	**8,365.7677**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.4 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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.1651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8097**	**6.2357**	**8.8024**	**0.0136**		**0.3084**	**0.3084**		**0.2846**	**0.2846**		**1,297.6880**	**1,297.6880**	**0.4114**		**1,307.9725**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0398	0.0201	0.3103	9.1000e-004	0.0989	5.0000e-004	0.0994	0.0262	4.6000e-004	0.0267		93.2263	93.2263	2.4400e-003	2.2300e-003	93.9507
Total	**0.0398**	**0.0201**	**0.3103**	**9.1000e-004**	**0.0989**	**5.0000e-004**	**0.0994**	**0.0262**	**4.6000e-004**	**0.0267**		**93.2263**	**93.2263**	**2.4400e-003**	**2.2300e-003**	**93.9507**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.4 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	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.1651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8097**	**6.2357**	**8.8024**	**0.0136**		**0.3084**	**0.3084**		**0.2846**	**0.2846**	**0.0000**	**1,297.6880**	**1,297.6880**	**0.4114**		**1,307.9725**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0398	0.0201	0.3103	9.1000e-004	0.0989	5.0000e-004	0.0994	0.0262	4.6000e-004	0.0267		93.2263	93.2263	2.4400e-003	2.2300e-003	93.9507
Total	**0.0398**	**0.0201**	**0.3103**	**9.1000e-004**	**0.0989**	**5.0000e-004**	**0.0994**	**0.0262**	**4.6000e-004**	**0.0267**		**93.2263**	**93.2263**	**2.4400e-003**	**2.2300e-003**	**93.9507**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, 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 On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	**1.5233**	**11.7104**	**12.6111**	**0.0221**		**0.5145**	**0.5145**		**0.4968**	**0.4968**		**2,001.7877**	**2,001.7877**	**0.3399**		**2,010.2858**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5400e-003	0.2820	0.0918	1.3400e-003	0.0455	1.8100e-003	0.0473	0.0131	1.7300e-003	0.0148		141.5245	141.5245	4.2000e-004	0.0215	147.9484
Worker	0.0520	0.0263	0.4058	1.1900e-003	0.1293	6.6000e-004	0.1300	0.0343	6.1000e-004	0.0349		121.9113	121.9113	3.2000e-003	2.9100e-003	122.8586
Total	**0.0596**	**0.3083**	**0.4976**	**2.5300e-003**	**0.1748**	**2.4700e-003**	**0.1773**	**0.0474**	**2.3400e-003**	**0.0497**		**263.4358**	**263.4358**	**3.6200e-003**	**0.0244**	**270.8070**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, 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 On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	**1.5233**	**11.7104**	**12.6111**	**0.0221**		**0.5145**	**0.5145**		**0.4968**	**0.4968**	**0.0000**	**2,001.7877**	**2,001.7877**	**0.3399**		**2,010.2858**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5400e-003	0.2820	0.0918	1.3400e-003	0.0455	1.8100e-003	0.0473	0.0131	1.7300e-003	0.0148		141.5245	141.5245	4.2000e-004	0.0215	147.9484
Worker	0.0520	0.0263	0.4058	1.1900e-003	0.1293	6.6000e-004	0.1300	0.0343	6.1000e-004	0.0349		121.9113	121.9113	3.2000e-003	2.9100e-003	122.8586
Total	**0.0596**	**0.3083**	**0.4976**	**2.5300e-003**	**0.1748**	**2.4700e-003**	**0.1773**	**0.0474**	**2.3400e-003**	**0.0497**		**263.4358**	**263.4358**	**3.6200e-003**	**0.0244**	**270.8070**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	**1.4200**	**11.0639**	**12.5172**	**0.0221**		**0.4506**	**0.4506**		**0.4348**	**0.4348**		**2,001.9214**	**2,001.9214**	**0.3334**		**2,010.2563**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3400e-003	0.2815	0.0898	1.3100e-003	0.0455	1.8200e-003	0.0473	0.0131	1.7400e-003	0.0148		138.8645	138.8645	4.0000e-004	0.0211	145.1716
Worker	0.0483	0.0234	0.3776	1.1500e-003	0.1293	6.2000e-004	0.1299	0.0343	5.7000e-004	0.0349		118.8002	118.8002	2.8900e-003	2.7100e-003	119.6805
Total	**0.0557**	**0.3049**	**0.4674**	**2.4600e-003**	**0.1748**	**2.4400e-003**	**0.1772**	**0.0474**	**2.3100e-003**	**0.0497**		**257.6646**	**257.6646**	**3.2900e-003**	**0.0238**	**264.8520**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	**1.4200**	**11.0639**	**12.5172**	**0.0221**		**0.4506**	**0.4506**		**0.4348**	**0.4348**	**0.0000**	**2,001.9214**	**2,001.9214**	**0.3334**		**2,010.2563**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3400e-003	0.2815	0.0898	1.3100e-003	0.0455	1.8200e-003	0.0473	0.0131	1.7400e-003	0.0148		138.8645	138.8645	4.0000e-004	0.0211	145.1716
Worker	0.0483	0.0234	0.3776	1.1500e-003	0.1293	6.2000e-004	0.1299	0.0343	5.7000e-004	0.0349		118.8002	118.8002	2.8900e-003	2.7100e-003	119.6805
Total	**0.0557**	**0.3049**	**0.4674**	**2.4600e-003**	**0.1748**	**2.4400e-003**	**0.1772**	**0.0474**	**2.3100e-003**	**0.0497**		**257.6646**	**257.6646**	**3.2900e-003**	**0.0238**	**264.8520**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.6 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	0.5505					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	**0.7422**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1800e-003	4.6400e-003	0.0716	2.1000e-004	0.0228	1.2000e-004	0.0229	6.0500e-003	1.1000e-004	6.1600e-003		21.5138	21.5138	5.6000e-004	5.1000e-004	21.6809
Total	**9.1800e-003**	**4.6400e-003**	**0.0716**	**2.1000e-004**	**0.0228**	**1.2000e-004**	**0.0229**	**6.0500e-003**	**1.1000e-004**	**6.1600e-003**		**21.5138**	**21.5138**	**5.6000e-004**	**5.1000e-004**	**21.6809**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.6 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	lb/day										lb/day					
Archit. Coating	0.5505					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	**0.7422**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1800e-003	4.6400e-003	0.0716	2.1000e-004	0.0228	1.2000e-004	0.0229	6.0500e-003	1.1000e-004	6.1600e-003		21.5138	21.5138	5.6000e-004	5.1000e-004	21.6809
Total	**9.1800e-003**	**4.6400e-003**	**0.0716**	**2.1000e-004**	**0.0228**	**1.2000e-004**	**0.0229**	**6.0500e-003**	**1.1000e-004**	**6.1600e-003**		**21.5138**	**21.5138**	**5.6000e-004**	**5.1000e-004**	**21.6809**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.5505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**0.7313**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5300e-003	4.1300e-003	0.0666	2.0000e-004	0.0228	1.1000e-004	0.0229	6.0500e-003	1.0000e-004	6.1500e-003		20.9647	20.9647	5.1000e-004	4.8000e-004	21.1201
Total	**8.5300e-003**	**4.1300e-003**	**0.0666**	**2.0000e-004**	**0.0228**	**1.1000e-004**	**0.0229**	**6.0500e-003**	**1.0000e-004**	**6.1500e-003**		**20.9647**	**20.9647**	**5.1000e-004**	**4.8000e-004**	**21.1201**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.5505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**0.7313**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5300e-003	4.1300e-003	0.0666	2.0000e-004	0.0228	1.1000e-004	0.0229	6.0500e-003	1.0000e-004	6.1500e-003		20.9647	20.9647	5.1000e-004	4.8000e-004	21.1201
Total	**8.5300e-003**	**4.1300e-003**	**0.0666**	**2.0000e-004**	**0.0228**	**1.1000e-004**	**0.0229**	**6.0500e-003**	**1.0000e-004**	**6.1500e-003**		**20.9647**	**20.9647**	**5.1000e-004**	**4.8000e-004**	**21.1201**

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	lb/day										lb/day					
Mitigated	1.6415	1.6105	10.8661	0.0216	2.0101	0.0182	2.0283	0.5366	0.0171	0.5537		2,235.4604	2,235.4604	0.1537	0.1232	2,276.0013
Unmitigated	1.6415	1.6105	10.8661	0.0216	2.0101	0.0182	2.0283	0.5366	0.0171	0.5537		2,235.4604	2,235.4604	0.1537	0.1232	2,276.0013

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	562.65	562.65	562.65	950,392	950,392
Parking Lot	0.00	0.00	0.00		
Total	562.65	562.65	562.65	950,392	950,392

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	10.00	5.00	7.00	29.60	51.40	19.00	60	30	10
Parking Lot	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020
Parking Lot	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020

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	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340
NaturalGas Unmitigated	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340

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					
Medical Office Building	788.652	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**8.5100e-003**	**0.0773**	**0.0650**	**4.6000e-004**		**5.8800e-003**	**5.8800e-003**		**5.8800e-003**	**5.8800e-003**		**92.7826**	**92.7826**	**1.7800e-003**	**1.7000e-003**	**93.3340**

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					
Medical Office Building	0.788652	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**8.5100e-003**	**0.0773**	**0.0650**	**4.6000e-004**		**5.8800e-003**	**5.8800e-003**		**5.8800e-003**	**5.8800e-003**		**92.7826**	**92.7826**	**1.7800e-003**	**1.7000e-003**	**93.3340**

6.0 Area Detail

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Summer

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4188	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Unmitigated	0.4188	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204

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	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Total	**0.4188**	**8.0000e-005**	**8.9400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0192**	**0.0192**	**5.0000e-005**		**0.0204**

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	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Total	**0.4188**	**8.0000e-005**	**8.9400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0192**	**0.0192**	**5.0000e-005**		**0.0204**

7.0 Water Detail

7.1 Mitigation Measures Water

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, 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

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

CommuniCare Health Services Expansion

Yolo/Solano AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	17.66	1000sqft	0.41	17,660.00	0
Parking Lot	70.00	Space	0.63	28,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	55
Climate Zone	2			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Demolition not required. Architectural coating adjusted to occur concurrently with building construction.

Vehicle Trips - Daily trip generation adjusted to match project-specific traffic report (KDA 2022)

Grading - 4,000 CY of import assumed

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	200.00
tblGrading	MaterialImported	0.00	4,000.00
tblVehicleTrips	ST_TR	8.57	31.86
tblVehicleTrips	SU_TR	1.42	31.86

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

tblVehicleTrips	WD_TR	34.80	31.86

2.0 Emissions Summary

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.3282	30.7285	14.9516	0.0962	9.4587	0.7501	10.2088	4.0615	0.6954	4.7569	0.0000	9,992.9589	9,992.9589	0.6625	1.2488	10,381.6620
2024	2.2100	12.6212	14.8263	0.0276	0.1976	0.5141	0.7117	0.0534	0.4981	0.5516	0.0000	2,548.1240	2,548.1240	0.3536	0.0249	2,564.3820
Maximum	**2.3282**	**30.7285**	**14.9516**	**0.0962**	**9.4587**	**0.7501**	**10.2088**	**4.0615**	**0.6954**	**4.7569**	**0.0000**	**9,992.9589**	**9,992.9589**	**0.6625**	**1.2488**	**10,381.6620**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.3282	30.7285	14.9516	0.0962	9.4587	0.7501	10.2088	4.0615	0.6954	4.7569	0.0000	9,992.9589	9,992.9589	0.6625	1.2488	10,381.6620
2024	2.2100	12.6212	14.8263	0.0276	0.1976	0.5141	0.7117	0.0534	0.4981	0.5516	0.0000	2,548.1240	2,548.1240	0.3536	0.0249	2,564.3820
Maximum	**2.3282**	**30.7285**	**14.9516**	**0.0962**	**9.4587**	**0.7501**	**10.2088**	**4.0615**	**0.6954**	**4.7569**	**0.0000**	**9,992.9589**	**9,992.9589**	**0.6625**	**1.2488**	**10,381.6620**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, 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	N20	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

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4188	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Energy	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340
Mobile	1.2978	1.8549	11.7504	0.0200	2.0101	0.0182	2.0283	0.5366	0.0171	0.5537		2,076.5308	2,076.5308	0.1809	0.1340	2,120.9945
Total	**1.7252**	**1.9323**	**11.8243**	**0.0205**	**2.0101**	**0.0242**	**2.0342**	**0.5366**	**0.0230**	**0.5596**		**2,169.3325**	**2,169.3325**	**0.1827**	**0.1357**	**2,214.3489**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4188	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Energy	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340
Mobile	1.2978	1.8549	11.7504	0.0200	2.0101	0.0182	2.0283	0.5366	0.0171	0.5537		2,076.5308	2,076.5308	0.1809	0.1340	2,120.9945
Total	**1.7252**	**1.9323**	**11.8243**	**0.0205**	**2.0101**	**0.0242**	**2.0342**	**0.5366**	**0.0230**	**0.5596**		**2,169.3325**	**2,169.3325**	**0.1827**	**0.1357**	**2,214.3489**

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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/2/2023	5	2	
2	Grading	Grading	6/3/2023	6/8/2023	5	4	
3	Paving	Paving	6/9/2023	6/22/2023	5	10	
4	Building Construction	Building Construction	6/23/2023	3/28/2024	5	200	
5	Architectural Coating	Architectural Coating	7/7/2023	4/11/2024	5	200	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.63

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 26,490; Non-Residential Outdoor: 8,830; Striped Parking Area: 1,680 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	500.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	17.00	7.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668		1,666.0573	1,666.0573	0.5388		1,679.5282
Total	**1.1339**	**12.4250**	**6.6420**	**0.0172**	**6.2662**	**0.5074**	**6.7736**	**3.0041**	**0.4668**	**3.4709**		**1,666.0573**	**1,666.0573**	**0.5388**		**1,679.5282**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	0.0155	0.1739	5.0000e-004	0.0609	3.1000e-004	0.0612	0.0161	2.8000e-004	0.0164		51.5362	51.5362	1.7600e-003	1.5900e-003	52.0538
Total	**0.0223**	**0.0155**	**0.1739**	**5.0000e-004**	**0.0609**	**3.1000e-004**	**0.0612**	**0.0161**	**2.8000e-004**	**0.0164**		**51.5362**	**51.5362**	**1.7600e-003**	**1.5900e-003**	**52.0538**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282
Total	**1.1339**	**12.4250**	**6.6420**	**0.0172**	**6.2662**	**0.5074**	**6.7736**	**3.0041**	**0.4668**	**3.4709**	**0.0000**	**1,666.0573**	**1,666.0573**	**0.5388**		**1,679.5282**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	0.0155	0.1739	5.0000e-004	0.0609	3.1000e-004	0.0612	0.0161	2.8000e-004	0.0164		51.5362	51.5362	1.7600e-003	1.5900e-003	52.0538
Total	**0.0223**	**0.0155**	**0.1739**	**5.0000e-004**	**0.0609**	**3.1000e-004**	**0.0612**	**0.0161**	**2.8000e-004**	**0.0164**		**51.5362**	**51.5362**	**1.7600e-003**	**1.5900e-003**	**52.0538**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1957	0.0000	7.1957	3.4419	0.0000	3.4419			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	**1.3330**	**14.4676**	**8.7038**	**0.0206**	**7.1957**	**0.6044**	**7.8000**	**3.4419**	**0.5560**	**3.9979**		**1,995.6147**	**1,995.6147**	**0.6454**		**2,011.7503**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2709	16.2416	3.5345	0.0749	2.1870	0.1453	2.3323	0.5995	0.1390	0.7385		7,932.9239	7,932.9239	0.0148	1.2468	8,304.8444
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0279	0.0193	0.2173	6.3000e-004	0.0761	3.9000e-004	0.0765	0.0202	3.6000e-004	0.0205		64.4203	64.4203	2.2000e-003	1.9900e-003	65.0673
Total	**0.2988**	**16.2609**	**3.7519**	**0.0756**	**2.2630**	**0.1457**	**2.4088**	**0.6197**	**0.1394**	**0.7591**		**7,997.3442**	**7,997.3442**	**0.0170**	**1.2488**	**8,369.9117**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1957	0.0000	7.1957	3.4419	0.0000	3.4419			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	**1.3330**	**14.4676**	**8.7038**	**0.0206**	**7.1957**	**0.6044**	**7.8000**	**3.4419**	**0.5560**	**3.9979**	**0.0000**	**1,995.6147**	**1,995.6147**	**0.6454**		**2,011.7503**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2709	16.2416	3.5345	0.0749	2.1870	0.1453	2.3323	0.5995	0.1390	0.7385		7,932.9239	7,932.9239	0.0148	1.2468	8,304.8444
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0279	0.0193	0.2173	6.3000e-004	0.0761	3.9000e-004	0.0765	0.0202	3.6000e-004	0.0205		64.4203	64.4203	2.2000e-003	1.9900e-003	65.0673
Total	**0.2988**	**16.2609**	**3.7519**	**0.0756**	**2.2630**	**0.1457**	**2.4088**	**0.6197**	**0.1394**	**0.7591**		**7,997.3442**	**7,997.3442**	**0.0170**	**1.2488**	**8,369.9117**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.4 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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.1651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8097**	**6.2357**	**8.8024**	**0.0136**		**0.3084**	**0.3084**		**0.2846**	**0.2846**		**1,297.6880**	**1,297.6880**	**0.4114**		**1,307.9725**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0363	0.0251	0.2825	8.2000e-004	0.0989	5.0000e-004	0.0994	0.0262	4.6000e-004	0.0267		83.7463	83.7463	2.8600e-003	2.5800e-003	84.5875
Total	**0.0363**	**0.0251**	**0.2825**	**8.2000e-004**	**0.0989**	**5.0000e-004**	**0.0994**	**0.0262**	**4.6000e-004**	**0.0267**		**83.7463**	**83.7463**	**2.8600e-003**	**2.5800e-003**	**84.5875**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.4 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	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.1651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8097**	**6.2357**	**8.8024**	**0.0136**		**0.3084**	**0.3084**		**0.2846**	**0.2846**	**0.0000**	**1,297.6880**	**1,297.6880**	**0.4114**		**1,307.9725**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0363	0.0251	0.2825	8.2000e-004	0.0989	5.0000e-004	0.0994	0.0262	4.6000e-004	0.0267		83.7463	83.7463	2.8600e-003	2.5800e-003	84.5875
Total	**0.0363**	**0.0251**	**0.2825**	**8.2000e-004**	**0.0989**	**5.0000e-004**	**0.0994**	**0.0262**	**4.6000e-004**	**0.0267**		**83.7463**	**83.7463**	**2.8600e-003**	**2.5800e-003**	**84.5875**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	**1.5233**	**11.7104**	**12.6111**	**0.0221**		**0.5145**	**0.5145**		**0.4968**	**0.4968**		**2,001.7877**	**2,001.7877**	**0.3399**		**2,010.2858**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9800e-003	0.3047	0.0948	1.3400e-003	0.0455	1.8200e-003	0.0473	0.0131	1.7400e-003	0.0148		141.8337	141.8337	3.9000e-004	0.0216	148.2760
Worker	0.0474	0.0329	0.3694	1.0700e-003	0.1293	6.6000e-004	0.1300	0.0343	6.1000e-004	0.0349		109.5145	109.5145	3.7400e-003	3.3800e-003	110.6144
Total	**0.0544**	**0.3376**	**0.4642**	**2.4100e-003**	**0.1748**	**2.4800e-003**	**0.1773**	**0.0474**	**2.3500e-003**	**0.0497**		**251.3481**	**251.3481**	**4.1300e-003**	**0.0250**	**258.8903**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	**1.5233**	**11.7104**	**12.6111**	**0.0221**		**0.5145**	**0.5145**		**0.4968**	**0.4968**	**0.0000**	**2,001.7877**	**2,001.7877**	**0.3399**		**2,010.2858**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9800e-003	0.3047	0.0948	1.3400e-003	0.0455	1.8200e-003	0.0473	0.0131	1.7400e-003	0.0148		141.8337	141.8337	3.9000e-004	0.0216	148.2760
Worker	0.0474	0.0329	0.3694	1.0700e-003	0.1293	6.6000e-004	0.1300	0.0343	6.1000e-004	0.0349		109.5145	109.5145	3.7400e-003	3.3800e-003	110.6144
Total	**0.0544**	**0.3376**	**0.4642**	**2.4100e-003**	**0.1748**	**2.4800e-003**	**0.1773**	**0.0474**	**2.3500e-003**	**0.0497**		**251.3481**	**251.3481**	**4.1300e-003**	**0.0250**	**258.8903**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	**1.4200**	**11.0639**	**12.5172**	**0.0221**		**0.4506**	**0.4506**		**0.4348**	**0.4348**		**2,001.9214**	**2,001.9214**	**0.3334**		**2,010.2563**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7900e-003	0.3041	0.0928	1.3200e-003	0.0455	1.8200e-003	0.0473	0.0131	1.7400e-003	0.0148		139.1706	139.1706	3.7000e-004	0.0212	145.4953
Worker	0.0441	0.0293	0.3453	1.0300e-003	0.1293	6.2000e-004	0.1299	0.0343	5.7000e-004	0.0349		106.7463	106.7463	3.3900e-003	3.1400e-003	107.7683
Total	**0.0509**	**0.3334**	**0.4381**	**2.3500e-003**	**0.1748**	**2.4400e-003**	**0.1772**	**0.0474**	**2.3100e-003**	**0.0497**		**245.9169**	**245.9169**	**3.7600e-003**	**0.0243**	**253.2636**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	**1.4200**	**11.0639**	**12.5172**	**0.0221**		**0.4506**	**0.4506**		**0.4348**	**0.4348**	**0.0000**	**2,001.9214**	**2,001.9214**	**0.3334**		**2,010.2563**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7900e-003	0.3041	0.0928	1.3200e-003	0.0455	1.8200e-003	0.0473	0.0131	1.7400e-003	0.0148		139.1706	139.1706	3.7000e-004	0.0212	145.4953
Worker	0.0441	0.0293	0.3453	1.0300e-003	0.1293	6.2000e-004	0.1299	0.0343	5.7000e-004	0.0349		106.7463	106.7463	3.3900e-003	3.1400e-003	107.7683
Total	**0.0509**	**0.3334**	**0.4381**	**2.3500e-003**	**0.1748**	**2.4400e-003**	**0.1772**	**0.0474**	**2.3100e-003**	**0.0497**		**245.9169**	**245.9169**	**3.7600e-003**	**0.0243**	**253.2636**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.6 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	0.5505					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	**0.7422**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3700e-003	5.8000e-003	0.0652	1.9000e-004	0.0228	1.2000e-004	0.0229	6.0500e-003	1.1000e-004	6.1600e-003		19.3261	19.3261	6.6000e-004	6.0000e-004	19.5202
Total	**8.3700e-003**	**5.8000e-003**	**0.0652**	**1.9000e-004**	**0.0228**	**1.2000e-004**	**0.0229**	**6.0500e-003**	**1.1000e-004**	**6.1600e-003**		**19.3261**	**19.3261**	**6.6000e-004**	**6.0000e-004**	**19.5202**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.6 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	lb/day										lb/day					
Archit. Coating	0.5505					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	**0.7422**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3700e-003	5.8000e-003	0.0652	1.9000e-004	0.0228	1.2000e-004	0.0229	6.0500e-003	1.1000e-004	6.1600e-003		19.3261	19.3261	6.6000e-004	6.0000e-004	19.5202
Total	**8.3700e-003**	**5.8000e-003**	**0.0652**	**1.9000e-004**	**0.0228**	**1.2000e-004**	**0.0229**	**6.0500e-003**	**1.1000e-004**	**6.1600e-003**		**19.3261**	**19.3261**	**6.6000e-004**	**6.0000e-004**	**19.5202**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.5505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**0.7313**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7900e-003	5.1700e-003	0.0609	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0500e-003	1.0000e-004	6.1500e-003		18.8376	18.8376	6.0000e-004	5.5000e-004	19.0179
Total	**7.7900e-003**	**5.1700e-003**	**0.0609**	**1.8000e-004**	**0.0228**	**1.1000e-004**	**0.0229**	**6.0500e-003**	**1.0000e-004**	**6.1500e-003**		**18.8376**	**18.8376**	**6.0000e-004**	**5.5000e-004**	**19.0179**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.5505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**0.7313**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7900e-003	5.1700e-003	0.0609	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0500e-003	1.0000e-004	6.1500e-003		18.8376	18.8376	6.0000e-004	5.5000e-004	19.0179
Total	**7.7900e-003**	**5.1700e-003**	**0.0609**	**1.8000e-004**	**0.0228**	**1.1000e-004**	**0.0229**	**6.0500e-003**	**1.0000e-004**	**6.1500e-003**		**18.8376**	**18.8376**	**6.0000e-004**	**5.5000e-004**	**19.0179**

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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	lb/day										lb/day					
Mitigated	1.2978	1.8549	11.7504	0.0200	2.0101	0.0182	2.0283	0.5366	0.0171	0.5537		2,076.5308	2,076.5308	0.1809	0.1340	2,120.9945
Unmitigated	1.2978	1.8549	11.7504	0.0200	2.0101	0.0182	2.0283	0.5366	0.0171	0.5537		2,076.5308	2,076.5308	0.1809	0.1340	2,120.9945

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	562.65	562.65	562.65	950,392	950,392
Parking Lot	0.00	0.00	0.00		
Total	562.65	562.65	562.65	950,392	950,392

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	10.00	5.00	7.00	29.60	51.40	19.00	60	30	10
Parking Lot	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020
Parking Lot	0.508386	0.056948	0.178426	0.142719	0.032913	0.007228	0.019592	0.017032	0.000592	0.000589	0.030937	0.000618	0.004020

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	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340
NaturalGas Unmitigated	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340

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					
Medical Office Building	788.652	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**8.5100e-003**	**0.0773**	**0.0650**	**4.6000e-004**		**5.8800e-003**	**5.8800e-003**		**5.8800e-003**	**5.8800e-003**		**92.7826**	**92.7826**	**1.7800e-003**	**1.7000e-003**	**93.3340**

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					
Medical Office Building	0.788652	8.5100e-003	0.0773	0.0650	4.6000e-004		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003		92.7826	92.7826	1.7800e-003	1.7000e-003	93.3340
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**8.5100e-003**	**0.0773**	**0.0650**	**4.6000e-004**		**5.8800e-003**	**5.8800e-003**		**5.8800e-003**	**5.8800e-003**		**92.7826**	**92.7826**	**1.7800e-003**	**1.7000e-003**	**93.3340**

6.0 Area Detail

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, Winter

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4188	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Unmitigated	0.4188	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204

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	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Total	**0.4188**	**8.0000e-005**	**8.9400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0192**	**0.0192**	**5.0000e-005**		**0.0204**

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	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.2000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Total	**0.4188**	**8.0000e-005**	**8.9400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0192**	**0.0192**	**5.0000e-005**		**0.0204**

7.0 Water Detail

7.1 Mitigation Measures Water

CommuniCare Health Services Expansion - Yolo/Solano AQMD Air District, 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

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CommuniCare Health Services Expansion

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

Yolo/Solano AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

CommuniCare Health Services Expansion

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	1	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

CommuniCare Health Services Expansion

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	1.87600E-002	1.27180E-001	1.81070E-001	3.00000E-004	6.72000E-003	6.72000E-003	0.00000E+000	2.55325E+001	2.55325E+001	1.49000E-003	0.00000E+000	2.55699E+001
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Cranes	2.58800E-002	2.78690E-001	1.36150E-001	4.30000E-004	1.16300E-002	1.07000E-002	0.00000E+000	3.80212E+001	3.80212E+001	1.23000E-002	0.00000E+000	3.83286E+001
Forklifts	7.49000E-003	7.01500E-002	8.57300E-002	1.10000E-004	4.25000E-003	3.91000E-003	0.00000E+000	1.00719E+001	1.00719E+001	3.26000E-003	0.00000E+000	1.01533E+001
Generator Sets	2.99200E-002	2.66080E-001	3.66760E-001	6.60000E-004	1.22700E-002	1.22700E-002	0.00000E+000	5.65208E+001	5.65208E+001	2.42000E-003	0.00000E+000	5.65813E+001
Graders	1.15000E-003	1.39600E-002	5.08000E-003	2.00000E-005	4.50000E-004	4.20000E-004	0.00000E+000	1.74412E+000	1.74412E+000	5.60000E-004	0.00000E+000	1.75822E+000
Pavers	7.20000E-004	7.06000E-003	1.08100E-002	2.00000E-005	3.30000E-004	3.10000E-004	0.00000E+000	1.54862E+000	1.54862E+000	5.00000E-004	0.00000E+000	1.56114E+000
Paving Equipment	8.50000E-004	8.01000E-003	1.27800E-002	2.00000E-005	3.90000E-004	3.60000E-004	0.00000E+000	1.78927E+000	1.78927E+000	5.80000E-004	0.00000E+000	1.80374E+000
Rollers	6.70000E-004	7.04000E-003	8.10000E-003	1.00000E-005	3.90000E-004	3.60000E-004	0.00000E+000	1.00854E+000	1.00854E+000	3.30000E-004	0.00000E+000	1.01669E+000
Rubber Tired Dozers	1.97000E-003	2.04900E-002	8.93000E-003	2.00000E-005	9.20000E-004	8.50000E-004	0.00000E+000	2.15695E+000	2.15695E+000	7.00000E-004	0.00000E+000	2.17439E+000
Tractors/Loaders/ Backhoes	1.26100E-002	1.27670E-001	1.88650E-001	2.60000E-004	6.18000E-003	5.69000E-003	0.00000E+000	2.31221E+001	2.31221E+001	7.48000E-003	0.00000E+000	2.33091E+001
Welders	7.45500E-002	4.22340E-001	5.02010E-001	7.70000E-004	1.58000E-002	1.58000E-002	0.00000E+000	5.64662E+001	5.64662E+001	6.03000E-003	0.00000E+000	5.66170E+001

CommuniCare Health Services Expansion

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	1.87600E-002	1.27180E-001	1.81070E-001	3.00000E-004	6.72000E-003	6.72000E-003	0.00000E+000	2.55325E+001	2.55325E+001	1.49000E-003	0.00000E+000	2.55699E+001
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Cranes	2.58800E-002	2.78690E-001	1.36150E-001	4.30000E-004	1.16300E-002	1.07000E-002	0.00000E+000	3.80211E+001	3.80211E+001	1.23000E-002	0.00000E+000	3.83285E+001
Forklifts	7.49000E-003	7.01500E-002	8.57300E-002	1.10000E-004	4.25000E-003	3.91000E-003	0.00000E+000	1.00718E+001	1.00718E+001	3.26000E-003	0.00000E+000	1.01533E+001
Generator Sets	2.99200E-002	2.66080E-001	3.66760E-001	6.60000E-004	1.22700E-002	1.22700E-002	0.00000E+000	5.65207E+001	5.65207E+001	2.42000E-003	0.00000E+000	5.65813E+001
Graders	1.15000E-003	1.39600E-002	5.08000E-003	2.00000E-005	4.50000E-004	4.20000E-004	0.00000E+000	1.74412E+000	1.74412E+000	5.60000E-004	0.00000E+000	1.75822E+000
Pavers	7.20000E-004	7.06000E-003	1.08100E-002	2.00000E-005	3.30000E-004	3.10000E-004	0.00000E+000	1.54862E+000	1.54862E+000	5.00000E-004	0.00000E+000	1.56114E+000
Paving Equipment	8.50000E-004	8.01000E-003	1.27800E-002	2.00000E-005	3.90000E-004	3.60000E-004	0.00000E+000	1.78927E+000	1.78927E+000	5.80000E-004	0.00000E+000	1.80374E+000
Rollers	6.70000E-004	7.04000E-003	8.10000E-003	1.00000E-005	3.90000E-004	3.60000E-004	0.00000E+000	1.00854E+000	1.00854E+000	3.30000E-004	0.00000E+000	1.01669E+000
Rubber Tired Dozers	1.97000E-003	2.04900E-002	8.93000E-003	2.00000E-005	9.20000E-004	8.50000E-004	0.00000E+000	2.15694E+000	2.15694E+000	7.00000E-004	0.00000E+000	2.17438E+000
Tractors/Loaders/Backhoes	1.26100E-002	1.27670E-001	1.88650E-001	2.60000E-004	6.18000E-003	5.69000E-003	0.00000E+000	2.31221E+001	2.31221E+001	7.48000E-003	0.00000E+000	2.33091E+001
Welders	7.45500E-002	4.22340E-001	5.02010E-001	7.70000E-004	1.58000E-002	1.58000E-002	0.00000E+000	5.64661E+001	5.64661E+001	6.03000E-003	0.00000E+000	5.66170E+001

CommuniCare Health Services Expansion

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17497E-006	1.17497E-006	0.00000E+000	0.00000E+000	1.56434E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.05205E-006	1.05205E-006	0.00000E+000	0.00000E+000	1.04361E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.92866E-007	9.92866E-007	0.00000E+000	0.00000E+000	9.84903E-007
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23848E-006	1.23848E-006	0.00000E+000	0.00000E+000	1.06042E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.63618E-006	4.63618E-006	0.00000E+000	0.00000E+000	4.59899E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.64973E-007	8.64973E-007	0.00000E+000	0.00000E+000	1.28705E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23968E-006	1.23968E-006	0.00000E+000	0.00000E+000	1.23638E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction			
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction			

CommuniCare Health Services Expansion

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

No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.02	0.00	0.02	0.00	0.00	0.00
Grading	Fugitive Dust	0.01	0.01	0.01	0.01	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.01	0.00	0.01	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

CommuniCare Health Services Expansion

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.11	0.33		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

CommuniCare Health Services Expansion

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

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	

CommuniCare Health Services Expansion

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

No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	50.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

CommuniCare Health Services Expansion

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

CommuniCare Health Services Expansion

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	