

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

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South Coast Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	62.40	1000sqft	1.43	62,400.00	0
Medical Office Building	104.00	1000sqft	2.39	104,000.00	0
Enclosed Parking with Elevator	41.60	1000sqft	0.96	41,600.00	0
Quality Restaurant	124.81	1000sqft	2.87	124,810.00	0
Condo/Townhouse High Rise	338.00	Dwelling Unit	5.28	338,000.00	967
Strip Mall	124.81	1000sqft	2.87	124,810.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - Operational yr 2030 is GP buildout yr.

Land Use - Land use assumptions in EIR.

Construction Phase - Assume no demo - all construction on vacant parcels.  
All phases estimated for buildout over 9 years.

Grading - Assumptions set forth in EIR.

Architectural Coating - CalEEMod defaults used.

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Vehicle Trips - Trip generation rates are from ITE Trip Generation Manual, 10th edition.

Woodstoves - Assume no fireplaces or woodstoves.

Sequestration - Assume 500 new trees.

Construction Off-road Equipment Mitigation - Tier 4 or better engines to be required

Mobile Land Use Mitigation - Metro light rail station at Pioneer/188th St. assumed by 2030.

100 Jobs/Job acre from Gateway Cities COG, Comp. Econ. Dev.

Strategy (CEDs) for the Gateway Cities Region (11/17/15)

Area Mitigation -

Energy Mitigation - Mitigation measure to include 10% exceedance of Tit. 24 requirements throughout MUO for new construction.

kW required by Cal Green Tit. 24 = 807 kW.

Water Mitigation - Water-efficient plumbing and irrigation required by Tit. 24, local water-conservation requirements.

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

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	312.00
tblConstructionPhase	NumDays	300.00	1,252.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	311.00
tblConstructionPhase	NumDays	20.00	1,565.00
tblConstructionPhase	NumDays	10.00	312.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/18/2023	12/30/2028
tblConstructionPhase	PhaseEndDate	11/23/2022	12/31/2027
tblConstructionPhase	PhaseEndDate	8/4/2021	1/2/2022
tblConstructionPhase	PhaseEndDate	9/29/2021	12/30/2023
tblConstructionPhase	PhaseEndDate	12/21/2022	12/31/2027

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tblConstructionPhase	PhaseEndDate	8/18/2021	12/31/2022
tblConstructionPhase	PhaseStartDate	12/22/2022	1/3/2028
tblConstructionPhase	PhaseStartDate	9/30/2021	1/2/2024
tblConstructionPhase	PhaseStartDate	7/8/2021	1/3/2022
tblConstructionPhase	PhaseStartDate	8/19/2021	1/3/2023
tblConstructionPhase	PhaseStartDate	11/24/2022	1/2/2023
tblConstructionPhase	PhaseStartDate	8/5/2021	1/3/2022
tblFireplaces	NumberGas	287.30	0.00
tblFireplaces	NumberNoFireplace	33.80	338.00
tblFireplaces	NumberWood	16.90	0.00
tblGrading	AcresOfGrading	933.00	8.00
tblGrading	AcresOfGrading	468.00	15.00
tblGrading	MaterialExported	0.00	9,250.00
tblSequestration	NumberOfNewTrees	0.00	500.00
tblWoodstoves	NumberCatalytic	16.90	0.00
tblWoodstoves	NumberNoncatalytic	16.90	0.00

**2.0 Emissions Summary**

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2353	33.1311	20.3187	0.0398	18.3184	1.6138	19.9322	9.9896	1.4847	11.4742	0.0000	3,859.602 1	3,859.602 1	1.1970	4.6700e- 003	3,890.918 0
2023	4.4782	45.1675	43.8503	0.0898	6.4920	1.9394	8.4315	3.4310	1.7844	5.2154	0.0000	8,732.524 4	8,732.524 4	2.6782	0.0381	8,810.832 0
2024	3.8986	28.1187	44.8387	0.1074	5.4164	1.1299	6.5463	1.4526	1.0530	2.5056	0.0000	10,731.80 15	10,731.80 15	1.4917	0.4070	10,890.39 30
2025	3.6378	26.0938	43.8412	0.1058	5.4164	0.9930	6.4094	1.4526	0.9253	2.3779	0.0000	10,563.50 76	10,563.50 76	1.4793	0.3957	10,718.41 67
2026	3.5659	25.9920	43.1195	0.1043	5.4164	0.9917	6.4081	1.4526	0.9241	2.3767	0.0000	10,411.56 93	10,411.56 93	1.4718	0.3854	10,563.21 08
2027	3.5000	25.9005	42.5052	0.1029	5.4164	0.9902	6.4066	1.4526	0.9227	2.3753	0.0000	10,270.50 36	10,270.50 36	1.4651	0.3757	10,419.07 66
2028	19.5502	1.2618	3.6983	9.4100e- 003	0.9054	0.0554	0.9608	0.2401	0.0551	0.2952	0.0000	932.2294	932.2294	0.0277	0.0144	937.2252
<b>Maximum</b>	<b>19.5502</b>	<b>45.1675</b>	<b>44.8387</b>	<b>0.1074</b>	<b>18.3184</b>	<b>1.9394</b>	<b>19.9322</b>	<b>9.9896</b>	<b>1.7844</b>	<b>11.4742</b>	<b>0.0000</b>	<b>10,731.80 15</b>	<b>10,731.80 15</b>	<b>2.6782</b>	<b>0.4070</b>	<b>10,890.39 30</b>



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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.4196	0.3210	27.8582	1.4800e-003		0.1548	0.1548		0.1548	0.1548	0.0000	50.3108	50.3108	0.0481	0.0000	51.5132
Energy	1.0366	9.3521	7.3936	0.0565		0.7162	0.7162		0.7162	0.7162		11,307.9836	11,307.9836	0.2167	0.2073	11,375.1813
Mobile	41.6502	38.8908	357.2960	0.7320	93.0347	0.4991	93.5338	24.7937	0.4646	25.2582		74,723.4941	74,723.4941	5.6753	3.7025	75,968.7299
<b>Total</b>	<b>60.1064</b>	<b>48.5640</b>	<b>392.5479</b>	<b>0.7901</b>	<b>93.0347</b>	<b>1.3701</b>	<b>94.4048</b>	<b>24.7937</b>	<b>1.3355</b>	<b>26.1292</b>	<b>0.0000</b>	<b>86,081.7885</b>	<b>86,081.7885</b>	<b>5.9402</b>	<b>3.9098</b>	<b>87,395.4244</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.4196	0.3210	27.8582	1.4800e-003		0.1548	0.1548		0.1548	0.1548	0.0000	50.3108	50.3108	0.0481	0.0000	51.5132
Energy	1.0089	9.1043	7.2091	0.0550		0.6971	0.6971		0.6971	0.6971		11,006.2156	11,006.2156	0.2110	0.2018	11,071.6200
Mobile	29.6604	21.6127	191.5601	0.2784	33.1408	0.2209	33.3617	8.8320	0.2052	9.0372		28,414.7047	28,414.7047	3.2286	2.0060	29,093.2121
<b>Total</b>	<b>48.0890</b>	<b>31.0380</b>	<b>226.6274</b>	<b>0.3349</b>	<b>33.1408</b>	<b>1.0728</b>	<b>34.2136</b>	<b>8.8320</b>	<b>1.0571</b>	<b>9.8891</b>	<b>0.0000</b>	<b>39,471.2311</b>	<b>39,471.2311</b>	<b>3.4876</b>	<b>2.2078</b>	<b>40,216.3453</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	19.99	36.09	42.27	57.61	64.38	21.70	63.76	64.38	20.85	62.15	0.00	54.15	54.15	41.29	43.53	53.98

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	1/2/2022	5	0	
2	Site Preparation	Site Preparation	1/3/2022	12/31/2022	6	312	
3	Grading	Grading	1/3/2023	12/30/2023	6	311	
4	Building Construction	Building Construction	1/2/2024	12/31/2027	6	1252	
5	Paving	Paving	1/2/2023	12/31/2027	6	1565	
6	Architectural Coating	Architectural Coating	1/3/2028	12/30/2028	6	312	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0.96**

**Residential Indoor: 684,450; Residential Outdoor: 228,150; Non-Residential Indoor: 624,030; Non-Residential Outdoor: 208,010; Striped Parking Area: 2,496 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38



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Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	915.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	406.00	111.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	81.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area





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**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.1172	0.0000	18.1172	9.9362	0.0000	9.9362			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.1172</b>	<b>1.6126</b>	<b>19.7298</b>	<b>9.9362</b>	<b>1.4836</b>	<b>11.4198</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0652	0.0476	0.6210	1.7200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1100e-003	0.0545		173.5403	173.5403	4.8700e-003	4.6700e-003	175.0525
<b>Total</b>	<b>0.0652</b>	<b>0.0476</b>	<b>0.6210</b>	<b>1.7200e-003</b>	<b>0.2012</b>	<b>1.2000e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1100e-003</b>	<b>0.0545</b>		<b>173.5403</b>	<b>173.5403</b>	<b>4.8700e-003</b>	<b>4.6700e-003</b>	<b>175.0525</b>

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**3.3 Site Preparation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1528	0.0000	8.1528	4.4713	0.0000	4.4713			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0380</b>	<b>8.1528</b>	<b>0.0621</b>	<b>8.2148</b>	<b>4.4713</b>	<b>0.0621</b>	<b>4.5334</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0652	0.0476	0.6210	1.7200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1100e-003	0.0545		173.5403	173.5403	4.8700e-003	4.6700e-003	175.0525
<b>Total</b>	<b>0.0652</b>	<b>0.0476</b>	<b>0.6210</b>	<b>1.7200e-003</b>	<b>0.2012</b>	<b>1.2000e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1100e-003</b>	<b>0.0545</b>		<b>173.5403</b>	<b>173.5403</b>	<b>4.8700e-003</b>	<b>4.6700e-003</b>	<b>175.0525</b>

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**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0494	0.0000	6.0494	3.3132	0.0000	3.3132			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>6.0494</b>	<b>1.4245</b>	<b>7.4739</b>	<b>3.3132</b>	<b>1.3105</b>	<b>4.6237</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.8100e-003	0.3785	0.1025	1.6900e-003	0.0514	2.5500e-003	0.0540	0.0141	2.4400e-003	0.0165		186.8501	186.8501	0.0114	0.0297	195.9925
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0467	0.6357	1.8500e-003	0.2236	1.2600e-003	0.2248	0.0593	1.1600e-003	0.0605		186.6357	186.6357	4.8700e-003	4.7900e-003	188.1842
<b>Total</b>	<b>0.0732</b>	<b>0.4252</b>	<b>0.7382</b>	<b>3.5400e-003</b>	<b>0.2750</b>	<b>3.8100e-003</b>	<b>0.2788</b>	<b>0.0734</b>	<b>3.6000e-003</b>	<b>0.0770</b>		<b>373.4858</b>	<b>373.4858</b>	<b>0.0163</b>	<b>0.0345</b>	<b>384.1767</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.4 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7222	0.0000	2.7222	1.4909	0.0000	1.4909			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>2.7222</b>	<b>0.1015</b>	<b>2.8238</b>	<b>1.4909</b>	<b>0.1015</b>	<b>1.5925</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.8100e-003	0.3785	0.1025	1.6900e-003	0.0514	2.5500e-003	0.0540	0.0141	2.4400e-003	0.0165		186.8501	186.8501	0.0114	0.0297	195.9925
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0467	0.6357	1.8500e-003	0.2236	1.2600e-003	0.2248	0.0593	1.1600e-003	0.0605		186.6357	186.6357	4.8700e-003	4.7900e-003	188.1842
<b>Total</b>	<b>0.0732</b>	<b>0.4252</b>	<b>0.7382</b>	<b>3.5400e-003</b>	<b>0.2750</b>	<b>3.8100e-003</b>	<b>0.2788</b>	<b>0.0734</b>	<b>3.6000e-003</b>	<b>0.0770</b>		<b>373.4858</b>	<b>373.4858</b>	<b>0.0163</b>	<b>0.0345</b>	<b>384.1767</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1114	4.2718	1.5825	0.0199	0.7106	0.0227	0.7333	0.2046	0.0217	0.2263		2,154.6335	2,154.6335	0.0804	0.3133	2,249.9935
Worker	1.2802	0.8473	12.0195	0.0364	4.5381	0.0245	4.5626	1.2035	0.0225	1.2260		3,678.0339	3,678.0339	0.0896	0.0905	3,707.2289
<b>Total</b>	<b>1.3916</b>	<b>5.1191</b>	<b>13.6020</b>	<b>0.0563</b>	<b>5.2488</b>	<b>0.0471</b>	<b>5.2959</b>	<b>1.4081</b>	<b>0.0442</b>	<b>1.4523</b>		<b>5,832.6674</b>	<b>5,832.6674</b>	<b>0.1700</b>	<b>0.4037</b>	<b>5,957.2224</b>



Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.5 Building Construction - 2024**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1114	4.2718	1.5825	0.0199	0.7106	0.0227	0.7333	0.2046	0.0217	0.2263		2,154.6335	2,154.6335	0.0804	0.3133	2,249.9935
Worker	1.2802	0.8473	12.0195	0.0364	4.5381	0.0245	4.5626	1.2035	0.0225	1.2260		3,678.0339	3,678.0339	0.0896	0.0905	3,707.2289
<b>Total</b>	<b>1.3916</b>	<b>5.1191</b>	<b>13.6020</b>	<b>0.0563</b>	<b>5.2488</b>	<b>0.0471</b>	<b>5.2959</b>	<b>1.4081</b>	<b>0.0442</b>	<b>1.4523</b>		<b>5,832.6674</b>	<b>5,832.6674</b>	<b>0.1700</b>	<b>0.4037</b>	<b>5,957.2224</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1086	4.2529	1.5592	0.0196	0.7106	0.0228	0.7334	0.2046	0.0218	0.2264		2,115.990 7	2,115.990 7	0.0807	0.3080	2,209.802 8
Worker	1.2022	0.7615	11.2054	0.0352	4.5381	0.0233	4.5614	1.2035	0.0214	1.2250		3,553.027 9	3,553.027 9	0.0810	0.0846	3,580.252 7
<b>Total</b>	<b>1.3108</b>	<b>5.0144</b>	<b>12.7646</b>	<b>0.0547</b>	<b>5.2487</b>	<b>0.0461</b>	<b>5.2948</b>	<b>1.4081</b>	<b>0.0432</b>	<b>1.4513</b>		<b>5,669.018 6</b>	<b>5,669.018 6</b>	<b>0.1616</b>	<b>0.3926</b>	<b>5,790.055 4</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.5 Building Construction - 2025**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1086	4.2529	1.5592	0.0196	0.7106	0.0228	0.7334	0.2046	0.0218	0.2264		2,115.990 7	2,115.990 7	0.0807	0.3080	2,209.802 8
Worker	1.2022	0.7615	11.2054	0.0352	4.5381	0.0233	4.5614	1.2035	0.0214	1.2250		3,553.027 9	3,553.027 9	0.0810	0.0846	3,580.252 7
<b>Total</b>	<b>1.3108</b>	<b>5.0144</b>	<b>12.7646</b>	<b>0.0547</b>	<b>5.2487</b>	<b>0.0461</b>	<b>5.2948</b>	<b>1.4081</b>	<b>0.0432</b>	<b>1.4513</b>		<b>5,669.018 6</b>	<b>5,669.018 6</b>	<b>0.1616</b>	<b>0.3926</b>	<b>5,790.055 4</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.5 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1061	4.2237	1.5408	0.0192	0.7106	0.0227	0.7334	0.2046	0.0218	0.2263		2,076.895 4	2,076.895 4	0.0808	0.3027	2,169.117 2
Worker	1.1353	0.6915	10.5272	0.0341	4.5381	0.0221	4.5602	1.2035	0.0203	1.2239		3,444.205 5	3,444.205 5	0.0737	0.0798	3,469.812 7
<b>Total</b>	<b>1.2414</b>	<b>4.9151</b>	<b>12.0680</b>	<b>0.0533</b>	<b>5.2487</b>	<b>0.0448</b>	<b>5.2936</b>	<b>1.4081</b>	<b>0.0421</b>	<b>1.4502</b>		<b>5,521.100 9</b>	<b>5,521.100 9</b>	<b>0.1544</b>	<b>0.3824</b>	<b>5,638.929 9</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.5 Building Construction - 2026**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1061	4.2237	1.5408	0.0192	0.7106	0.0227	0.7334	0.2046	0.0218	0.2263		2,076.895 4	2,076.895 4	0.0808	0.3027	2,169.117 2
Worker	1.1353	0.6915	10.5272	0.0341	4.5381	0.0221	4.5602	1.2035	0.0203	1.2239		3,444.205 5	3,444.205 5	0.0737	0.0798	3,469.812 7
<b>Total</b>	<b>1.2414</b>	<b>4.9151</b>	<b>12.0680</b>	<b>0.0533</b>	<b>5.2487</b>	<b>0.0448</b>	<b>5.2936</b>	<b>1.4081</b>	<b>0.0421</b>	<b>1.4502</b>		<b>5,521.100 9</b>	<b>5,521.100 9</b>	<b>0.1544</b>	<b>0.3824</b>	<b>5,638.929 9</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.5 Building Construction - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1039	4.1935	1.5253	0.0188	0.7106	0.0227	0.7333	0.2046	0.0217	0.2263		2,036.103 0	2,036.103 0	0.0806	0.2971	2,126.662 5
Worker	1.0738	0.6324	9.9497	0.0331	4.5381	0.0207	4.5589	1.2035	0.0191	1.2226		3,347.504 8	3,347.504 8	0.0674	0.0757	3,371.756 0
<b>Total</b>	<b>1.1778</b>	<b>4.8258</b>	<b>11.4750</b>	<b>0.0519</b>	<b>5.2487</b>	<b>0.0434</b>	<b>5.2921</b>	<b>1.4081</b>	<b>0.0407</b>	<b>1.4489</b>		<b>5,383.607 8</b>	<b>5,383.607 8</b>	<b>0.1480</b>	<b>0.3729</b>	<b>5,498.418 5</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.5 Building Construction - 2027**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1039	4.1935	1.5253	0.0188	0.7106	0.0227	0.7333	0.2046	0.0217	0.2263		2,036.103 0	2,036.103 0	0.0806	0.2971	2,126.662 5
Worker	1.0738	0.6324	9.9497	0.0331	4.5381	0.0207	4.5589	1.2035	0.0191	1.2226		3,347.504 8	3,347.504 8	0.0674	0.0757	3,371.756 0
<b>Total</b>	<b>1.1778</b>	<b>4.8258</b>	<b>11.4750</b>	<b>0.0519</b>	<b>5.2487</b>	<b>0.0434</b>	<b>5.2921</b>	<b>1.4081</b>	<b>0.0407</b>	<b>1.4489</b>		<b>5,383.607 8</b>	<b>5,383.607 8</b>	<b>0.1480</b>	<b>0.3729</b>	<b>5,498.418 5</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0327</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0505	0.0351	0.4768	1.3800e-003	0.1677	9.4000e-004	0.1686	0.0445	8.7000e-004	0.0453		139.9767	139.9767	3.6500e-003	3.5900e-003	141.1381
<b>Total</b>	<b>0.0505</b>	<b>0.0351</b>	<b>0.4768</b>	<b>1.3800e-003</b>	<b>0.1677</b>	<b>9.4000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.7000e-004</b>	<b>0.0453</b>		<b>139.9767</b>	<b>139.9767</b>	<b>3.6500e-003</b>	<b>3.5900e-003</b>	<b>141.1381</b>



Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,207.584 1</b>	<b>2,207.584 1</b>	<b>0.7140</b>		<b>2,225.433 6</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0505	0.0351	0.4768	1.3800e-003	0.1677	9.4000e-004	0.1686	0.0445	8.7000e-004	0.0453		139.9767	139.9767	3.6500e-003	3.5900e-003	141.1381
<b>Total</b>	<b>0.0505</b>	<b>0.0351</b>	<b>0.4768</b>	<b>1.3800e-003</b>	<b>0.1677</b>	<b>9.4000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.7000e-004</b>	<b>0.0453</b>		<b>139.9767</b>	<b>139.9767</b>	<b>3.6500e-003</b>	<b>3.5900e-003</b>	<b>141.1381</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.6 Paving - 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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9882</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0473	0.0313	0.4441	1.3400e-003	0.1677	9.0000e-004	0.1686	0.0445	8.3000e-004	0.0453		135.8880	135.8880	3.3100e-003	3.3400e-003	136.9666
<b>Total</b>	<b>0.0473</b>	<b>0.0313</b>	<b>0.4441</b>	<b>1.3400e-003</b>	<b>0.1677</b>	<b>9.0000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.3000e-004</b>	<b>0.0453</b>		<b>135.8880</b>	<b>135.8880</b>	<b>3.3100e-003</b>	<b>3.3400e-003</b>	<b>136.9666</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.6 Paving - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0473	0.0313	0.4441	1.3400e-003	0.1677	9.0000e-004	0.1686	0.0445	8.3000e-004	0.0453		135.8880	135.8880	3.3100e-003	3.3400e-003	136.9666
<b>Total</b>	<b>0.0473</b>	<b>0.0313</b>	<b>0.4441</b>	<b>1.3400e-003</b>	<b>0.1677</b>	<b>9.0000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.3000e-004</b>	<b>0.0453</b>		<b>135.8880</b>	<b>135.8880</b>	<b>3.3100e-003</b>	<b>3.3400e-003</b>	<b>136.9666</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0444	0.0281	0.4140	1.3000e-003	0.1677	8.6000e-004	0.1685	0.0445	7.9000e-004	0.0453		131.2695	131.2695	2.9900e-003	3.1200e-003	132.2754
<b>Total</b>	<b>0.0444</b>	<b>0.0281</b>	<b>0.4140</b>	<b>1.3000e-003</b>	<b>0.1677</b>	<b>8.6000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.9000e-004</b>	<b>0.0453</b>		<b>131.2695</b>	<b>131.2695</b>	<b>2.9900e-003</b>	<b>3.1200e-003</b>	<b>132.2754</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.6 Paving - 2025**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0444	0.0281	0.4140	1.3000e-003	0.1677	8.6000e-004	0.1685	0.0445	7.9000e-004	0.0453		131.2695	131.2695	2.9900e-003	3.1200e-003	132.2754
<b>Total</b>	<b>0.0444</b>	<b>0.0281</b>	<b>0.4140</b>	<b>1.3000e-003</b>	<b>0.1677</b>	<b>8.6000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.9000e-004</b>	<b>0.0453</b>		<b>131.2695</b>	<b>131.2695</b>	<b>2.9900e-003</b>	<b>3.1200e-003</b>	<b>132.2754</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.6 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0256	0.3889	1.2600e-003	0.1677	8.2000e-004	0.1685	0.0445	7.5000e-004	0.0452		127.2490	127.2490	2.7200e-003	2.9500e-003	128.1951
<b>Total</b>	<b>0.0419</b>	<b>0.0256</b>	<b>0.3889</b>	<b>1.2600e-003</b>	<b>0.1677</b>	<b>8.2000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.5000e-004</b>	<b>0.0452</b>		<b>127.2490</b>	<b>127.2490</b>	<b>2.7200e-003</b>	<b>2.9500e-003</b>	<b>128.1951</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.6 Paving - 2026**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0256	0.3889	1.2600e-003	0.1677	8.2000e-004	0.1685	0.0445	7.5000e-004	0.0452		127.2490	127.2490	2.7200e-003	2.9500e-003	128.1951
<b>Total</b>	<b>0.0419</b>	<b>0.0256</b>	<b>0.3889</b>	<b>1.2600e-003</b>	<b>0.1677</b>	<b>8.2000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.5000e-004</b>	<b>0.0452</b>		<b>127.2490</b>	<b>127.2490</b>	<b>2.7200e-003</b>	<b>2.9500e-003</b>	<b>128.1951</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.6 Paving - 2027**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0397	0.0234	0.3676	1.2200e-003	0.1677	7.7000e-004	0.1684	0.0445	7.0000e-004	0.0452		123.6763	123.6763	2.4900e-003	2.8000e-003	124.5723
<b>Total</b>	<b>0.0397</b>	<b>0.0234</b>	<b>0.3676</b>	<b>1.2200e-003</b>	<b>0.1677</b>	<b>7.7000e-004</b>	<b>0.1684</b>	<b>0.0445</b>	<b>7.0000e-004</b>	<b>0.0452</b>		<b>123.6763</b>	<b>123.6763</b>	<b>2.4900e-003</b>	<b>2.8000e-003</b>	<b>124.5723</b>



Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.6 Paving - 2027**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0397	0.0234	0.3676	1.2200e-003	0.1677	7.7000e-004	0.1684	0.0445	7.0000e-004	0.0452		123.6763	123.6763	2.4900e-003	2.8000e-003	124.5723
<b>Total</b>	<b>0.0397</b>	<b>0.0234</b>	<b>0.3676</b>	<b>1.2200e-003</b>	<b>0.1677</b>	<b>7.7000e-004</b>	<b>0.1684</b>	<b>0.0445</b>	<b>7.0000e-004</b>	<b>0.0452</b>		<b>123.6763</b>	<b>123.6763</b>	<b>2.4900e-003</b>	<b>2.8000e-003</b>	<b>124.5723</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.7 Architectural Coating - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.1764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>19.3472</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2030	0.1163	1.8891	6.4400e-003	0.9054	3.8500e-003	0.9092	0.2401	3.5400e-003	0.2437		650.7814	650.7814	0.0124	0.0144	655.3934
<b>Total</b>	<b>0.2030</b>	<b>0.1163</b>	<b>1.8891</b>	<b>6.4400e-003</b>	<b>0.9054</b>	<b>3.8500e-003</b>	<b>0.9092</b>	<b>0.2401</b>	<b>3.5400e-003</b>	<b>0.2437</b>		<b>650.7814</b>	<b>650.7814</b>	<b>0.0124</b>	<b>0.0144</b>	<b>655.3934</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**3.7 Architectural Coating - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.1764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>19.2061</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2030	0.1163	1.8891	6.4400e-003	0.9054	3.8500e-003	0.9092	0.2401	3.5400e-003	0.2437		650.7814	650.7814	0.0124	0.0144	655.3934
<b>Total</b>	<b>0.2030</b>	<b>0.1163</b>	<b>1.8891</b>	<b>6.4400e-003</b>	<b>0.9054</b>	<b>3.8500e-003</b>	<b>0.9092</b>	<b>0.2401</b>	<b>3.5400e-003</b>	<b>0.2437</b>		<b>650.7814</b>	<b>650.7814</b>	<b>0.0124</b>	<b>0.0144</b>	<b>655.3934</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Integrate Below Market Rate Housing
- Limit Parking Supply

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	29.6604	21.6127	191.5601	0.2784	33.1408	0.2209	33.3617	8.8320	0.2052	9.0372		28,414.70 47	28,414.70 47	3.2286	2.0060	29,093.21 21
Unmitigated	41.6502	38.8908	357.2960	0.7320	93.0347	0.4991	93.5338	24.7937	0.4646	25.2582		74,723.49 41	74,723.49 41	5.6753	3.7025	75,968.72 99

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	1,838.72	1,659.58	1382.42	5,972,986	2,127,698
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	607.78	137.90	43.68	1,482,086	527,949
Medical Office Building	3,619.20	891.28	147.68	7,090,483	2,525,773
Quality Restaurant	10,464.07	11,237.89	8982.58	14,753,055	5,255,335

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	5,531.58	5,247.01	2549.87	9,636,584	3,432,745
<b>Total</b>	<b>22,061.35</b>	<b>19,173.67</b>	<b>13,106.22</b>	<b>38,935,193</b>	<b>13,869,499</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.538188	0.064794	0.188198	0.125732	0.023928	0.006891	0.012829	0.008420	0.000820	0.000476	0.025563	0.000761	0.003401
Enclosed Parking with Elevator	0.538188	0.064794	0.188198	0.125732	0.023928	0.006891	0.012829	0.008420	0.000820	0.000476	0.025563	0.000761	0.003401
General Office Building	0.538188	0.064794	0.188198	0.125732	0.023928	0.006891	0.012829	0.008420	0.000820	0.000476	0.025563	0.000761	0.003401
Medical Office Building	0.538188	0.064794	0.188198	0.125732	0.023928	0.006891	0.012829	0.008420	0.000820	0.000476	0.025563	0.000761	0.003401
Quality Restaurant	0.538188	0.064794	0.188198	0.125732	0.023928	0.006891	0.012829	0.008420	0.000820	0.000476	0.025563	0.000761	0.003401
Strip Mall	0.538188	0.064794	0.188198	0.125732	0.023928	0.006891	0.012829	0.008420	0.000820	0.000476	0.025563	0.000761	0.003401

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	1.0089	9.1043	7.2091	0.0550		0.6971	0.6971		0.6971	0.6971		11,006.2156	11,006.2156	0.2110	0.2018	11,071.6200
Natural Gas Unmitigated	1.0366	9.3521	7.3936	0.0565		0.7162	0.7162		0.7162	0.7162		11,307.9836	11,307.9836	0.2167	0.2073	11,375.1813

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	12100	0.1305	1.1151	0.4745	7.1200e-003		0.0902	0.0902		0.0902	0.0902		1,423.5318	1,423.5318	0.0273	0.0261	1,431.9911
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1762.59	0.0190	0.1728	0.1452	1.0400e-003		0.0131	0.0131		0.0131	0.0131		207.3631	207.3631	3.9700e-003	3.8000e-003	208.5954
Medical Office Building	2937.64	0.0317	0.2880	0.2419	1.7300e-003		0.0219	0.0219		0.0219	0.0219		345.6052	345.6052	6.6200e-003	6.3400e-003	347.6589
Quality Restaurant	78760.2	0.8494	7.7216	6.4861	0.0463		0.5868	0.5868		0.5868	0.5868		9,265.9105	9,265.9105	0.1776	0.1699	9,320.9732
Strip Mall	557.371	6.0100e-003	0.0546	0.0459	3.3000e-004		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003		65.5730	65.5730	1.2600e-003	1.2000e-003	65.9627
<b>Total</b>		<b>1.0366</b>	<b>9.3521</b>	<b>7.3936</b>	<b>0.0566</b>		<b>0.7162</b>	<b>0.7162</b>		<b>0.7162</b>	<b>0.7162</b>		<b>11,307.9836</b>	<b>11,307.9836</b>	<b>0.2167</b>	<b>0.2073</b>	<b>11,375.1813</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	11.4812	0.1238	1.0581	0.4502	6.7500e-003		0.0856	0.0856		0.0856	0.0856		1,350.7287	1,350.7287	0.0259	0.0248	1,358.7554
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.593	0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119		187.4112	187.4112	3.5900e-003	3.4400e-003	188.5249
Medical Office Building	2.65499	0.0286	0.2603	0.2187	1.5600e-003		0.0198	0.0198		0.0198	0.0198		312.3520	312.3520	5.9900e-003	5.7300e-003	314.2081
Quality Restaurant	77.3053	0.8337	7.5790	6.3663	0.0455		0.5760	0.5760		0.5760	0.5760		9,094.7367	9,094.7367	0.1743	0.1667	9,148.7822
Strip Mall	0.518389	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003		60.9869	60.9869	1.1700e-003	1.1200e-003	61.3494
<b>Total</b>		<b>1.0089</b>	<b>9.1043</b>	<b>7.2091</b>	<b>0.0550</b>		<b>0.6971</b>	<b>0.6971</b>		<b>0.6971</b>	<b>0.6971</b>		<b>11,006.2156</b>	<b>11,006.2156</b>	<b>0.2110</b>	<b>0.2018</b>	<b>11,071.6200</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed



Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.4196	0.3210	27.8582	1.4800e-003		0.1548	0.1548		0.1548	0.1548	0.0000	50.3108	50.3108	0.0481	0.0000	51.5132
Unmitigated	17.4196	0.3210	27.8582	1.4800e-003		0.1548	0.1548		0.1548	0.1548	0.0000	50.3108	50.3108	0.0481	0.0000	51.5132

**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	1.6392					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.9443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8361	0.3210	27.8582	1.4800e-003		0.1548	0.1548		0.1548	0.1548		50.3108	50.3108	0.0481		51.5132
<b>Total</b>	<b>17.4196</b>	<b>0.3210</b>	<b>27.8582</b>	<b>1.4800e-003</b>		<b>0.1548</b>	<b>0.1548</b>		<b>0.1548</b>	<b>0.1548</b>	<b>0.0000</b>	<b>50.3108</b>	<b>50.3108</b>	<b>0.0481</b>	<b>0.0000</b>	<b>51.5132</b>

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6392					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.9443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8361	0.3210	27.8582	1.4800e-003		0.1548	0.1548		0.1548	0.1548		50.3108	50.3108	0.0481		51.5132
<b>Total</b>	<b>17.4196</b>	<b>0.3210</b>	<b>27.8582</b>	<b>1.4800e-003</b>		<b>0.1548</b>	<b>0.1548</b>		<b>0.1548</b>	<b>0.1548</b>	<b>0.0000</b>	<b>50.3108</b>	<b>50.3108</b>	<b>0.0481</b>	<b>0.0000</b>	<b>51.5132</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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