

Perris Residential - South Coast AQMD Air District, Annual

**Perris Residential**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	11.90	Acre	11.90	518,364.00	0
Single Family Housing	145.00	Dwelling Unit	28.30	300,000.00	654

**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>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Perris Residential - South Coast AQMD Air District, Annual

Project Characteristics -

Land Use - used data on site plan

Construction Phase - Grading: 90 days, Construction: 500 days, Paving 35 days adjusted to allow for 3 year build out

Off-road Equipment -

Off-road Equipment - Construction: 1 crane, 3 forklifts, 1 gen set, 3 loader/backhoes, 1 welder

Off-road Equipment - Grading: 2 excavators, 2 graders, 1 dozer, 2 scrapers, 2 tractors added equipment based on type and quantity of grading

Off-road Equipment - Paving: 2 pavers, 2 paving equipment, 2 rollers

On-road Fugitive Dust - limit speed during grading

Vehicle Trips - trip rates per TIA

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Fleet Mix -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Architectural Coating -

Grading - grading balanced on site

## Perris Residential - South Coast AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	195750	176175
tblAreaCoating	Area_Residential_Interior	587250	528525
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	740.00	500.00
tblConstructionPhase	NumDays	75.00	90.00
tblConstructionPhase	NumDays	55.00	35.00
tblGrading	AcresOfGrading	360.00	112.50
tblLandUse	LandUseSquareFeet	261,000.00	300,000.00
tblLandUse	LotAcreage	47.08	28.30
tblLandUse	Population	415.00	654.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Grading
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	9.52	9.44

## 2.0 Emissions Summary

---

Perris Residential - South Coast AQMD Air District, Annual

**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					
2020	0.5065	5.1445	3.5707	8.3500e-003	0.5055	0.2169	0.7224	0.2025	0.2016	0.4040	0.0000	743.4621	743.4621	0.1580	0.0000	747.4131
2021	0.3483	3.0036	3.0020	7.3000e-003	0.2555	0.1280	0.3835	0.0689	0.1204	0.1892	0.0000	655.7268	655.7268	0.0886	0.0000	657.9407
2022	1.0680	0.9736	1.1160	2.5200e-003	0.0791	0.0413	0.1204	0.0213	0.0387	0.0600	0.0000	225.4586	225.4586	0.0359	0.0000	226.3551
<b>Maximum</b>	<b>1.0680</b>	<b>5.1445</b>	<b>3.5707</b>	<b>8.3500e-003</b>	<b>0.5055</b>	<b>0.2169</b>	<b>0.7224</b>	<b>0.2025</b>	<b>0.2016</b>	<b>0.4040</b>	<b>0.0000</b>	<b>743.4621</b>	<b>743.4621</b>	<b>0.1580</b>	<b>0.0000</b>	<b>747.4131</b>

**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					
2020	0.5065	5.1445	3.5707	8.3500e-003	0.3038	0.2169	0.5207	0.1077	0.2016	0.3092	0.0000	743.4615	743.4615	0.1580	0.0000	747.4125
2021	0.3483	3.0036	3.0020	7.3000e-003	0.2555	0.1280	0.3835	0.0689	0.1204	0.1892	0.0000	655.7264	655.7264	0.0886	0.0000	657.9404
2022	1.0680	0.9736	1.1160	2.5200e-003	0.0791	0.0413	0.1204	0.0213	0.0387	0.0600	0.0000	225.4584	225.4584	0.0359	0.0000	226.3550
<b>Maximum</b>	<b>1.0680</b>	<b>5.1445</b>	<b>3.5707</b>	<b>8.3500e-003</b>	<b>0.3038</b>	<b>0.2169</b>	<b>0.5207</b>	<b>0.1077</b>	<b>0.2016</b>	<b>0.3092</b>	<b>0.0000</b>	<b>743.4615</b>	<b>743.4615</b>	<b>0.1580</b>	<b>0.0000</b>	<b>747.4125</b>

## Perris Residential - South Coast AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	24.01	0.00	16.45	32.39	0.00	14.51	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	2.3745	2.3745
2	4-1-2020	6-30-2020	1.4059	1.4059
3	7-1-2020	9-30-2020	0.9253	0.9253
4	10-1-2020	12-31-2020	0.9288	0.9288
5	1-1-2021	3-31-2021	0.8246	0.8246
6	4-1-2021	6-30-2021	0.8309	0.8309
7	7-1-2021	9-30-2021	0.8400	0.8400
8	10-1-2021	12-31-2021	0.8429	0.8429
9	1-1-2022	3-31-2022	0.7486	0.7486
10	4-1-2022	6-30-2022	0.9250	0.9250
11	7-1-2022	9-30-2022	0.3764	0.3764
		Highest	2.3745	2.3745

Perris Residential - South Coast AQMD Air District, Annual

**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	1.7226	0.0549	2.4189	2.4300e-003		0.1467	0.1467		0.1467	0.1467	15.4018	32.0398	47.4416	0.0483	1.0500e-003	48.9603
Energy	0.0239	0.2044	0.0870	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	639.4477	639.4477	0.0212	7.7800e-003	642.2953
Mobile	0.4036	2.3037	5.5020	0.0212	1.7773	0.0168	1.7941	0.4763	0.0156	0.4919	0.0000	1,956.7173	1,956.7173	0.0930	0.0000	1,959.0410
Waste						0.0000	0.0000		0.0000	0.0000	34.5389	0.0000	34.5389	2.0412	0.0000	85.5687
Water						0.0000	0.0000		0.0000	0.0000	2.9972	60.2781	63.2753	0.3103	7.7800e-003	73.3531
<b>Total</b>	<b>2.1501</b>	<b>2.5630</b>	<b>8.0079</b>	<b>0.0249</b>	<b>1.7773</b>	<b>0.1800</b>	<b>1.9573</b>	<b>0.4763</b>	<b>0.1789</b>	<b>0.6552</b>	<b>52.9379</b>	<b>2,688.4829</b>	<b>2,741.4208</b>	<b>2.5139</b>	<b>0.0166</b>	<b>2,809.2183</b>

Perris Residential - South Coast AQMD Air District, Annual

**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	1.2508	0.0443	1.5086	2.5000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	33.7808	33.7808	2.9600e-003	5.7000e-004	34.0260
Energy	0.0239	0.2044	0.0870	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	631.6810	631.6810	0.0208	7.7100e-003	634.5007
Mobile	0.4036	2.3037	5.5020	0.0212	1.7773	0.0168	1.7941	0.4763	0.0156	0.4919	0.0000	1,956.7173	1,956.7173	0.0930	0.0000	1,959.0410
Waste						0.0000	0.0000		0.0000	0.0000	34.5389	0.0000	34.5389	2.0412	0.0000	85.5687
Water						0.0000	0.0000		0.0000	0.0000	2.9972	58.9920	61.9892	0.3103	7.7700e-003	72.0624
<b>Total</b>	<b>1.6783</b>	<b>2.5525</b>	<b>7.0976</b>	<b>0.0227</b>	<b>1.7773</b>	<b>0.0438</b>	<b>1.8211</b>	<b>0.4763</b>	<b>0.0426</b>	<b>0.5189</b>	<b>37.5361</b>	<b>2,681.1711</b>	<b>2,718.7072</b>	<b>2.4682</b>	<b>0.0161</b>	<b>2,785.1988</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>21.94</b>	<b>0.41</b>	<b>11.37</b>	<b>8.76</b>	<b>0.00</b>	<b>75.70</b>	<b>6.96</b>	<b>0.00</b>	<b>76.17</b>	<b>20.80</b>	<b>29.09</b>	<b>0.27</b>	<b>0.83</b>	<b>1.82</b>	<b>3.37</b>	<b>0.86</b>

**3.0 Construction Detail**

**Construction Phase**

Perris Residential - South Coast AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	5/5/2020	5	90	
2	Building Construction	Building Construction	5/13/2020	4/12/2022	5	500	
3	Paving	Paving	4/13/2022	5/31/2022	5	35	
4	Architectural Coating	Architectural Coating	6/1/2022	7/19/2022	5	35	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 11.9**

**Residential Indoor: 587,250; Residential Outdoor: 195,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 13,695 (Architectural Coating – sqft)**

**OffRoad Equipment**



Perris Residential - South Coast AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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
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
Grading	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	148.00	53.00	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	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Perris Residential - South Coast AQMD Air District, Annual

**3.2 Grading - 2020**

**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					0.3307	0.0000	0.3307	0.1554	0.0000	0.1554	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2549	3.0244	1.5396	3.5200e-003		0.1202	0.1202		0.1106	0.1106	0.0000	308.9436	308.9436	0.0999	0.0000	311.4416
<b>Total</b>	<b>0.2549</b>	<b>3.0244</b>	<b>1.5396</b>	<b>3.5200e-003</b>	<b>0.3307</b>	<b>0.1202</b>	<b>0.4509</b>	<b>0.1554</b>	<b>0.1106</b>	<b>0.2660</b>	<b>0.0000</b>	<b>308.9436</b>	<b>308.9436</b>	<b>0.0999</b>	<b>0.0000</b>	<b>311.4416</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	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	4.6200e-003	3.5400e-003	0.0392	1.1000e-004	0.0114	9.0000e-005	0.0114	3.0200e-003	8.0000e-005	3.1000e-003	0.0000	10.2223	10.2223	2.9000e-004	0.0000	10.2297
<b>Total</b>	<b>4.6200e-003</b>	<b>3.5400e-003</b>	<b>0.0392</b>	<b>1.1000e-004</b>	<b>0.0114</b>	<b>9.0000e-005</b>	<b>0.0114</b>	<b>3.0200e-003</b>	<b>8.0000e-005</b>	<b>3.1000e-003</b>	<b>0.0000</b>	<b>10.2223</b>	<b>10.2223</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>10.2297</b>

Perris Residential - South Coast AQMD Air District, Annual

**3.2 Grading - 2020**

**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					0.1290	0.0000	0.1290	0.0606	0.0000	0.0606	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2549	3.0244	1.5396	3.5200e-003		0.1202	0.1202		0.1106	0.1106	0.0000	308.9433	308.9433	0.0999	0.0000	311.4412
<b>Total</b>	<b>0.2549</b>	<b>3.0244</b>	<b>1.5396</b>	<b>3.5200e-003</b>	<b>0.1290</b>	<b>0.1202</b>	<b>0.2492</b>	<b>0.0606</b>	<b>0.1106</b>	<b>0.1712</b>	<b>0.0000</b>	<b>308.9433</b>	<b>308.9433</b>	<b>0.0999</b>	<b>0.0000</b>	<b>311.4412</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	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	4.6200e-003	3.5400e-003	0.0392	1.1000e-004	0.0114	9.0000e-005	0.0114	3.0200e-003	8.0000e-005	3.1000e-003	0.0000	10.2223	10.2223	2.9000e-004	0.0000	10.2297
<b>Total</b>	<b>4.6200e-003</b>	<b>3.5400e-003</b>	<b>0.0392</b>	<b>1.1000e-004</b>	<b>0.0114</b>	<b>9.0000e-005</b>	<b>0.0114</b>	<b>3.0200e-003</b>	<b>8.0000e-005</b>	<b>3.1000e-003</b>	<b>0.0000</b>	<b>10.2223</b>	<b>10.2223</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>10.2297</b>

Perris Residential - South Coast AQMD Air District, Annual

**3.3 Building Construction - 2020**

**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	0.1770	1.6020	1.4069	2.2500e-003		0.0933	0.0933		0.0877	0.0877	0.0000	193.3943	193.3943	0.0472	0.0000	194.5739
<b>Total</b>	<b>0.1770</b>	<b>1.6020</b>	<b>1.4069</b>	<b>2.2500e-003</b>		<b>0.0933</b>	<b>0.0933</b>		<b>0.0877</b>	<b>0.0877</b>	<b>0.0000</b>	<b>193.3943</b>	<b>193.3943</b>	<b>0.0472</b>	<b>0.0000</b>	<b>194.5739</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	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	0.0148	0.4723	0.1170	1.1200e-003	0.0279	2.3200e-003	0.0302	8.0500e-003	2.2100e-003	0.0103	0.0000	108.8460	108.8460	7.1500e-003	0.0000	109.0246
Worker	0.0552	0.0423	0.4680	1.3500e-003	0.1356	1.0500e-003	0.1366	0.0360	9.7000e-004	0.0370	0.0000	122.0558	122.0558	3.5000e-003	0.0000	122.1433
<b>Total</b>	<b>0.0700</b>	<b>0.5146</b>	<b>0.5850</b>	<b>2.4700e-003</b>	<b>0.1635</b>	<b>3.3700e-003</b>	<b>0.1668</b>	<b>0.0441</b>	<b>3.1800e-003</b>	<b>0.0472</b>	<b>0.0000</b>	<b>230.9018</b>	<b>230.9018</b>	<b>0.0107</b>	<b>0.0000</b>	<b>231.1680</b>

Perris Residential - South Coast AQMD Air District, Annual

**3.3 Building Construction - 2020**

**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	0.1770	1.6020	1.4069	2.2500e-003		0.0933	0.0933		0.0877	0.0877	0.0000	193.3941	193.3941	0.0472	0.0000	194.5736
<b>Total</b>	<b>0.1770</b>	<b>1.6020</b>	<b>1.4069</b>	<b>2.2500e-003</b>		<b>0.0933</b>	<b>0.0933</b>		<b>0.0877</b>	<b>0.0877</b>	<b>0.0000</b>	<b>193.3941</b>	<b>193.3941</b>	<b>0.0472</b>	<b>0.0000</b>	<b>194.5736</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	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	0.0148	0.4723	0.1170	1.1200e-003	0.0279	2.3200e-003	0.0302	8.0500e-003	2.2100e-003	0.0103	0.0000	108.8460	108.8460	7.1500e-003	0.0000	109.0246
Worker	0.0552	0.0423	0.4680	1.3500e-003	0.1356	1.0500e-003	0.1366	0.0360	9.7000e-004	0.0370	0.0000	122.0558	122.0558	3.5000e-003	0.0000	122.1433
<b>Total</b>	<b>0.0700</b>	<b>0.5146</b>	<b>0.5850</b>	<b>2.4700e-003</b>	<b>0.1635</b>	<b>3.3700e-003</b>	<b>0.1668</b>	<b>0.0441</b>	<b>3.1800e-003</b>	<b>0.0472</b>	<b>0.0000</b>	<b>230.9018</b>	<b>230.9018</b>	<b>0.0107</b>	<b>0.0000</b>	<b>231.1680</b>

Perris Residential - South Coast AQMD Air District, Annual

**3.3 Building Construction - 2021**

**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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
<b>Total</b>	<b>0.2481</b>	<b>2.2749</b>	<b>2.1631</b>	<b>3.5100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>302.2867</b>	<b>302.2867</b>	<b>0.0729</b>	<b>0.0000</b>	<b>304.1099</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	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	0.0197	0.6692	0.1659	1.7400e-003	0.0436	1.3500e-003	0.0449	0.0126	1.2900e-003	0.0139	0.0000	168.8639	168.8639	0.0107	0.0000	169.1309
Worker	0.0805	0.0595	0.6731	2.0400e-003	0.2119	1.5900e-003	0.2135	0.0563	1.4600e-003	0.0577	0.0000	184.5762	184.5762	4.9500e-003	0.0000	184.6999
<b>Total</b>	<b>0.1002</b>	<b>0.7287</b>	<b>0.8390</b>	<b>3.7800e-003</b>	<b>0.2555</b>	<b>2.9400e-003</b>	<b>0.2584</b>	<b>0.0689</b>	<b>2.7500e-003</b>	<b>0.0716</b>	<b>0.0000</b>	<b>353.4401</b>	<b>353.4401</b>	<b>0.0156</b>	<b>0.0000</b>	<b>353.8309</b>

Perris Residential - South Coast AQMD Air District, Annual

**3.3 Building Construction - 2021**

**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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
<b>Total</b>	<b>0.2481</b>	<b>2.2749</b>	<b>2.1631</b>	<b>3.5100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>302.2863</b>	<b>302.2863</b>	<b>0.0729</b>	<b>0.0000</b>	<b>304.1095</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	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	0.0197	0.6692	0.1659	1.7400e-003	0.0436	1.3500e-003	0.0449	0.0126	1.2900e-003	0.0139	0.0000	168.8639	168.8639	0.0107	0.0000	169.1309
Worker	0.0805	0.0595	0.6731	2.0400e-003	0.2119	1.5900e-003	0.2135	0.0563	1.4600e-003	0.0577	0.0000	184.5762	184.5762	4.9500e-003	0.0000	184.6999
<b>Total</b>	<b>0.1002</b>	<b>0.7287</b>	<b>0.8390</b>	<b>3.7800e-003</b>	<b>0.2555</b>	<b>2.9400e-003</b>	<b>0.2584</b>	<b>0.0689</b>	<b>2.7500e-003</b>	<b>0.0716</b>	<b>0.0000</b>	<b>353.4401</b>	<b>353.4401</b>	<b>0.0156</b>	<b>0.0000</b>	<b>353.8309</b>

Perris Residential - South Coast AQMD Air District, Annual

**3.3 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0614	0.5622	0.5891	9.7000e-004		0.0291	0.0291		0.0274	0.0274	0.0000	83.4211	83.4211	0.0200	0.0000	83.9207
<b>Total</b>	<b>0.0614</b>	<b>0.5622</b>	<b>0.5891</b>	<b>9.7000e-004</b>		<b>0.0291</b>	<b>0.0291</b>		<b>0.0274</b>	<b>0.0274</b>	<b>0.0000</b>	<b>83.4211</b>	<b>83.4211</b>	<b>0.0200</b>	<b>0.0000</b>	<b>83.9207</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0900e-003	0.1751	0.0433	4.8000e-004	0.0120	3.2000e-004	0.0124	3.4700e-003	3.1000e-004	3.7800e-003	0.0000	46.1730	46.1730	2.8300e-003	0.0000	46.2439
Worker	0.0209	0.0148	0.1714	5.4000e-004	0.0585	4.3000e-004	0.0589	0.0155	3.9000e-004	0.0159	0.0000	49.0920	49.0920	1.2300e-003	0.0000	49.1229
<b>Total</b>	<b>0.0259</b>	<b>0.1899</b>	<b>0.2147</b>	<b>1.0200e-003</b>	<b>0.0705</b>	<b>7.5000e-004</b>	<b>0.0712</b>	<b>0.0190</b>	<b>7.0000e-004</b>	<b>0.0197</b>	<b>0.0000</b>	<b>95.2650</b>	<b>95.2650</b>	<b>4.0600e-003</b>	<b>0.0000</b>	<b>95.3667</b>



Perris Residential - South Coast AQMD Air District, Annual

**3.3 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0614	0.5622	0.5891	9.7000e-004		0.0291	0.0291		0.0274	0.0274	0.0000	83.4210	83.4210	0.0200	0.0000	83.9206
<b>Total</b>	<b>0.0614</b>	<b>0.5622</b>	<b>0.5891</b>	<b>9.7000e-004</b>		<b>0.0291</b>	<b>0.0291</b>		<b>0.0274</b>	<b>0.0274</b>	<b>0.0000</b>	<b>83.4210</b>	<b>83.4210</b>	<b>0.0200</b>	<b>0.0000</b>	<b>83.9206</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0900e-003	0.1751	0.0433	4.8000e-004	0.0120	3.2000e-004	0.0124	3.4700e-003	3.1000e-004	3.7800e-003	0.0000	46.1730	46.1730	2.8300e-003	0.0000	46.2439
Worker	0.0209	0.0148	0.1714	5.4000e-004	0.0585	4.3000e-004	0.0589	0.0155	3.9000e-004	0.0159	0.0000	49.0920	49.0920	1.2300e-003	0.0000	49.1229
<b>Total</b>	<b>0.0259</b>	<b>0.1899</b>	<b>0.2147</b>	<b>1.0200e-003</b>	<b>0.0705</b>	<b>7.5000e-004</b>	<b>0.0712</b>	<b>0.0190</b>	<b>7.0000e-004</b>	<b>0.0197</b>	<b>0.0000</b>	<b>95.2650</b>	<b>95.2650</b>	<b>4.0600e-003</b>	<b>0.0000</b>	<b>95.3667</b>

Perris Residential - South Coast AQMD Air District, Annual

**3.4 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0193	0.1947	0.2552	4.0000e-004		9.9400e-003	9.9400e-003		9.1400e-003	9.1400e-003	0.0000	35.0482	35.0482	0.0113	0.0000	35.3316
Paving	0.0156					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0349</b>	<b>0.1947</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>9.9400e-003</b>	<b>9.9400e-003</b>		<b>9.1400e-003</b>	<b>9.1400e-003</b>	<b>0.0000</b>	<b>35.0482</b>	<b>35.0482</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3316</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	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	1.0300e-003	7.3000e-004	8.4500e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4187	2.4187	6.0000e-005	0.0000	2.4202
<b>Total</b>	<b>1.0300e-003</b>	<b>7.3000e-004</b>	<b>8.4500e-003</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>2.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.4187</b>	<b>2.4187</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4202</b>

Perris Residential - South Coast AQMD Air District, Annual

**3.4 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0193	0.1947	0.2552	4.0000e-004		9.9400e-003	9.9400e-003		9.1400e-003	9.1400e-003	0.0000	35.0482	35.0482	0.0113	0.0000	35.3316
Paving	0.0156					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0349</b>	<b>0.1947</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>9.9400e-003</b>	<b>9.9400e-003</b>		<b>9.1400e-003</b>	<b>9.1400e-003</b>	<b>0.0000</b>	<b>35.0482</b>	<b>35.0482</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3316</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	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	1.0300e-003	7.3000e-004	8.4500e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4187	2.4187	6.0000e-005	0.0000	2.4202
<b>Total</b>	<b>1.0300e-003</b>	<b>7.3000e-004</b>	<b>8.4500e-003</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>2.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.4187</b>	<b>2.4187</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4202</b>

Perris Residential - South Coast AQMD Air District, Annual

**3.5 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755
<b>Total</b>	<b>0.9426</b>	<b>0.0247</b>	<b>0.0317</b>	<b>5.0000e-005</b>		<b>1.4300e-003</b>	<b>1.4300e-003</b>		<b>1.4300e-003</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>4.4755</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	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	2.0500e-003	1.4600e-003	0.0169	5.0000e-005	5.7600e-003	4.0000e-005	5.8000e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	4.8373	4.8373	1.2000e-004	0.0000	4.8404
<b>Total</b>	<b>2.0500e-003</b>	<b>1.4600e-003</b>	<b>0.0169</b>	<b>5.0000e-005</b>	<b>5.7600e-003</b>	<b>4.0000e-005</b>	<b>5.8000e-003</b>	<b>1.5300e-003</b>	<b>4.0000e-005</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>4.8373</b>	<b>4.8373</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.8404</b>

Perris Residential - South Coast AQMD Air District, Annual

**3.5 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755
<b>Total</b>	<b>0.9426</b>	<b>0.0247</b>	<b>0.0317</b>	<b>5.0000e-005</b>		<b>1.4300e-003</b>	<b>1.4300e-003</b>		<b>1.4300e-003</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>4.4755</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	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	2.0500e-003	1.4600e-003	0.0169	5.0000e-005	5.7600e-003	4.0000e-005	5.8000e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	4.8373	4.8373	1.2000e-004	0.0000	4.8404
<b>Total</b>	<b>2.0500e-003</b>	<b>1.4600e-003</b>	<b>0.0169</b>	<b>5.0000e-005</b>	<b>5.7600e-003</b>	<b>4.0000e-005</b>	<b>5.8000e-003</b>	<b>1.5300e-003</b>	<b>4.0000e-005</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>4.8373</b>	<b>4.8373</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.8404</b>

**4.0 Operational Detail - Mobile**

---

Perris Residential - South Coast AQMD Air District, Annual

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4036	2.3037	5.5020	0.0212	1.7773	0.0168	1.7941	0.4763	0.0156	0.4919	0.0000	1,956.7173	1,956.7173	0.0930	0.0000	1,959.0410
Unmitigated	0.4036	2.3037	5.5020	0.0212	1.7773	0.0168	1.7941	0.4763	0.0156	0.4919	0.0000	1,956.7173	1,956.7173	0.0930	0.0000	1,959.0410

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,368.80	1,368.80	1,368.80	4,677,398	4,677,398
<b>Total</b>	<b>1,368.80</b>	<b>1,368.80</b>	<b>1,368.80</b>	<b>4,677,398</b>	<b>4,677,398</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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Perris Residential - South Coast AQMD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Single Family Housing	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	394.9356	394.9356	0.0163	3.3700e-003	396.3485
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	402.7023	402.7023	0.0166	3.4400e-003	404.1430
NaturalGas Mitigated	0.0239	0.2044	0.0870	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	236.7454	236.7454	4.5400e-003	4.3400e-003	238.1523
NaturalGas Unmitigated	0.0239	0.2044	0.0870	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	236.7454	236.7454	4.5400e-003	4.3400e-003	238.1523

Perris Residential - South Coast AQMD Air District, Annual

**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					
Other Asphalt Surfaces	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
Single Family Housing	4.43644e+006	0.0239	0.2044	0.0870	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	236.7454	236.7454	4.5400e-003	4.3400e-003	238.1523
<b>Total</b>		<b>0.0239</b>	<b>0.2044</b>	<b>0.0870</b>	<b>1.3000e-003</b>		<b>0.0165</b>	<b>0.0165</b>		<b>0.0165</b>	<b>0.0165</b>	<b>0.0000</b>	<b>236.7454</b>	<b>236.7454</b>	<b>4.5400e-003</b>	<b>4.3400e-003</b>	<b>238.1523</b>

**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					
Other Asphalt Surfaces	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
Single Family Housing	4.43644e+006	0.0239	0.2044	0.0870	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	236.7454	236.7454	4.5400e-003	4.3400e-003	238.1523
<b>Total</b>		<b>0.0239</b>	<b>0.2044</b>	<b>0.0870</b>	<b>1.3000e-003</b>		<b>0.0165</b>	<b>0.0165</b>		<b>0.0165</b>	<b>0.0165</b>	<b>0.0000</b>	<b>236.7454</b>	<b>236.7454</b>	<b>4.5400e-003</b>	<b>4.3400e-003</b>	<b>238.1523</b>



Perris Residential - South Coast AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.26389e+006	402.7023	0.0166	3.4400e-003	404.1430
<b>Total</b>		<b>402.7023</b>	<b>0.0166</b>	<b>3.4400e-003</b>	<b>404.1430</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.23951e+006	394.9356	0.0163	3.3700e-003	396.3485
<b>Total</b>		<b>394.9356</b>	<b>0.0163</b>	<b>3.3700e-003</b>	<b>396.3485</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Perris Residential - South Coast AQMD Air District, Annual

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	1.2508	0.0443	1.5086	2.5000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	33.7808	33.7808	2.9600e-003	5.7000e-004	34.0260
Unmitigated	1.7226	0.0549	2.4189	2.4300e-003		0.1467	0.1467		0.1467	0.1467	15.4018	32.0398	47.4416	0.0483	1.0500e-003	48.9603

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0848					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.4749	0.0376	0.9218	2.3500e-003		0.1385	0.1385		0.1385	0.1385	15.4018	29.5969	44.9987	0.0459	1.0500e-003	46.4585
Landscaping	0.0452	0.0173	1.4971	8.0000e-005		8.2700e-003	8.2700e-003		8.2700e-003	8.2700e-003	0.0000	2.4429	2.4429	2.3600e-003	0.0000	2.5018
<b>Total</b>	<b>1.7226</b>	<b>0.0549</b>	<b>2.4189</b>	<b>2.4300e-003</b>		<b>0.1467</b>	<b>0.1467</b>		<b>0.1467</b>	<b>0.1467</b>	<b>15.4018</b>	<b>32.0398</b>	<b>47.4416</b>	<b>0.0483</b>	<b>1.0500e-003</b>	<b>48.9603</b>

Perris Residential - South Coast AQMD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0848					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.1700e-003	0.0271	0.0115	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003	0.0000	31.3379	31.3379	6.0000e-004	5.7000e-004	31.5241
Landscaping	0.0452	0.0173	1.4971	8.0000e-005		8.2700e-003	8.2700e-003		8.2700e-003	8.2700e-003	0.0000	2.4429	2.4429	2.3600e-003	0.0000	2.5018
<b>Total</b>	<b>1.2508</b>	<b>0.0443</b>	<b>1.5086</b>	<b>2.5000e-004</b>		<b>0.0105</b>	<b>0.0105</b>		<b>0.0105</b>	<b>0.0105</b>	<b>0.0000</b>	<b>33.7808</b>	<b>33.7808</b>	<b>2.9600e-003</b>	<b>5.7000e-004</b>	<b>34.0260</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Water Efficient Irrigation System

Perris Residential - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	61.9892	0.3103	7.7700e-003	72.0624
Unmitigated	63.2753	0.3103	7.7800e-003	73.3531

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.44733 / 5.95593	63.2753	0.3103	7.7800e-003	73.3531
<b>Total</b>		<b>63.2753</b>	<b>0.3103</b>	<b>7.7800e-003</b>	<b>73.3531</b>

Perris Residential - South Coast AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.44733 / 5.59262	61.9892	0.3103	7.7700e-003	72.0624
<b>Total</b>		<b>61.9892</b>	<b>0.3103</b>	<b>7.7700e-003</b>	<b>72.0624</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	34.5389	2.0412	0.0000	85.5687
Unmitigated	34.5389	2.0412	0.0000	85.5687

Perris Residential - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	170.15	34.5389	2.0412	0.0000	85.5687
<b>Total</b>		<b>34.5389</b>	<b>2.0412</b>	<b>0.0000</b>	<b>85.5687</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	170.15	34.5389	2.0412	0.0000	85.5687
<b>Total</b>		<b>34.5389</b>	<b>2.0412</b>	<b>0.0000</b>	<b>85.5687</b>

**9.0 Operational Offroad**

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

Perris Residential - South Coast AQMD Air District, Annual

**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**

---