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**APPENDIX W**  
**ENERGY USE CALCULATIONS**

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**APPENDIX W.1**  
**CONSTRUCTION ENERGY CALCULATIONS**

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**Table W.1-2**

**ELECTRICITY REQUIRED TO PROVIDE WATER FOR DUST CONTROL**

<b>Construction Phase</b>	<b>No. of Days</b>	<b>Daily Acreage</b>	<b>Gallons/acre-day</b>	<b>Gallons</b>	<b>kW-hr per Gallon</b>	<b>kW-hr</b>
Site Preparation and Grading	250	5	3,020	3,775,000	0.009727	36,719
Drainage Improvements	90	5	3,020	1,359,000	0.009727	13,219
Total						<b>49,938</b>

**Table W.1-3  
CONSTRUCTION ONROAD VEHICLE FUEL USE**

Construction Subphase <sup>a</sup>	Days	Construction Worker Commuting			Vendor Trips			Materials and Waste Hauling Trips		
		Trips per Day	Miles/Trip	VMT	Trips per Day	Miles/Trip	VMT	Trips per Day	Miles/Trip	VMT
Site Preparation and Grading	250	28	14.7	102,900	0	6.9	0	0	20	0
Drainage Improvements	90	20	14.7	26,460	0	6.9	0	0	20	0
Paving and Utilities	90	20	14.7	26,460	0	6.9	0	0	20	0
Entry Road Paving	18	15	14.7	3,969	0	6.9	0	0	20	0
Building Construction	217	5	14.7	15,950	1	6.9	1497.3	0	20	0
Architectural Coating	18	1	14.7	265	0	6.9	0	0	20	0
<b>Total VMT</b>				<b>176,003</b>			<b>1,497</b>			<b>0</b>
<b>Grand Total</b>										<b>177,500</b>

**FUEL CALCULATION**

	VMT	Gasoline or Diesel	Miles per Gallon <sup>b</sup>	Gallons	
				Gasoline	Gallons Diesel
Workers	176,003.1	Gasoline	26.1	6,743.41	0
Vendors	1,497.3	Diesel	14.7	0	101.86
Haulers	0	Diesel	14.7	0	0
<b>Totals</b>				<b>6,743</b>	<b>102</b>

<sup>a</sup>Trips per day and miles per trip were calculated by CalEEMod.

<sup>b</sup>Composite miles per gallon for Los Angeles County, from EMFAC2017.

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**APPENDIX W.2**  
**OPERATIONAL PHASE ENERGY CALCULATIONS**

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Chadwick Estates - Los Angeles-South Coast County, Annual

**Chadwick Estates**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	14.00	Dwelling Unit	4.55	25,200.00	40

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2026
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Chadwick Estates - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use -

Construction Phase - Construction schedule developed from client information

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Estimated by need

Off-road Equipment -

Grading - Data provided by client

Vehicle Trips - Rates were changed to fit Estate Housing trip rates as presented in San Diego Trip Generation Manual

Woodstoves - Residences assumed to be equipped with NG fireplaces

Off-road Equipment - Estimated by need

Off-road Equipment -

Off-road Equipment -

Architectural Coating -

Construction Off-road Equipment Mitigation - Per SCAQMD Mitigation Measure Table XI-C for local streets



## Chadwick Estates - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	16
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	217.00
tblConstructionPhase	NumDays	8.00	250.00
tblConstructionPhase	NumDays	8.00	90.00
tblConstructionPhase	NumDays	18.00	90.00
tblFireplaces	NumberGas	11.90	14.00
tblFireplaces	NumberNoFireplace	1.40	0.00
tblFireplaces	NumberWood	0.70	0.00
tblGrading	AcresOfGrading	250.00	44.40
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblVehicleTrips	ST_TR	9.91	12.49
tblVehicleTrips	SU_TR	8.62	10.67
tblVehicleTrips	WD_TR	9.52	12.00
tblWoodstoves	NumberCatalytic	0.70	0.00
tblWoodstoves	NumberNoncatalytic	0.70	0.00

## 2.0 Emissions Summary

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Chadwick Estates - Los Angeles-South Coast County, 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					
2022	0.4498	4.4728	2.9579	7.4200e-003	1.3701	0.1910	1.5612	0.7225	0.1758	0.8984	0.0000	651.4778	651.4778	0.2013	0.0000	656.5105
2023	0.2903	2.7053	2.6737	5.4500e-003	0.5637	0.1209	0.6846	0.2808	0.1121	0.3929	0.0000	475.5635	475.5635	0.1356	0.0000	478.9533
2024	0.1693	0.8158	0.9887	1.6700e-003	3.7300e-003	0.0371	0.0408	1.0000e-003	0.0349	0.0359	0.0000	144.3809	144.3809	0.0329	0.0000	145.2032
<b>Maximum</b>	<b>0.4498</b>	<b>4.4728</b>	<b>2.9579</b>	<b>7.4200e-003</b>	<b>1.3701</b>	<b>0.1910</b>	<b>1.5612</b>	<b>0.7225</b>	<b>0.1758</b>	<b>0.8984</b>	<b>0.0000</b>	<b>651.4778</b>	<b>651.4778</b>	<b>0.2013</b>	<b>0.0000</b>	<b>656.5105</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					
2022	0.4498	4.4728	2.9579	7.4200e-003	0.5504	0.1910	0.7414	0.2861	0.1758	0.4620	0.0000	651.4770	651.4770	0.2013	0.0000	656.5098
2023	0.2903	2.7053	2.6737	5.4500e-003	0.2333	0.1209	0.3542	0.1132	0.1121	0.2253	0.0000	475.5630	475.5630	0.1356	0.0000	478.9527
2024	0.1693	0.8158	0.9887	1.6700e-003	3.2300e-003	0.0371	0.0403	8.8000e-004	0.0349	0.0358	0.0000	144.3807	144.3807	0.0329	0.0000	145.2031
<b>Maximum</b>	<b>0.4498</b>	<b>4.4728</b>	<b>2.9579</b>	<b>7.4200e-003</b>	<b>0.5504</b>	<b>0.1910</b>	<b>0.7414</b>	<b>0.2861</b>	<b>0.1758</b>	<b>0.4620</b>	<b>0.0000</b>	<b>651.4770</b>	<b>651.4770</b>	<b>0.2013</b>	<b>0.0000</b>	<b>656.5098</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	0.00	0.00	0.00	0.00	59.39	0.00	50.32	60.15	0.00	45.52	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	4-1-2022	6-30-2022	1.4731	1.4731
2	7-1-2022	9-30-2022	1.4893	1.4893
3	10-1-2022	12-31-2022	1.9754	1.9754
4	1-1-2023	3-31-2023	1.7173	1.7173
5	4-1-2023	6-30-2023	0.3195	0.3195
6	7-1-2023	9-30-2023	0.4251	0.4251
7	10-1-2023	12-31-2023	0.5278	0.5278
8	1-1-2024	3-31-2024	0.4881	0.4881
9	4-1-2024	6-30-2024	0.4586	0.4586
10	7-1-2024	9-30-2024	0.0327	0.0327
		Highest	1.9754	1.9754

Chadwick Estates - Los Angeles-South Coast County, 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	0.1036	4.5600e-003	0.1455	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	3.5978	3.5978	2.9000e-004	6.0000e-005	3.6234
Energy	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	57.1408	57.1408	1.9100e-003	6.9000e-004	57.3938
Mobile	0.0406	0.1971	0.5532	2.3300e-003	0.2157	1.7500e-003	0.2174	0.0578	1.6200e-003	0.0594	0.0000	215.6990	215.6990	9.7600e-003	0.0000	215.9429
Waste						0.0000	0.0000		0.0000	0.0000	3.3291	0.0000	3.3291	0.1967	0.0000	8.2476
Water						0.0000	0.0000		0.0000	0.0000	0.2894	5.8200	6.1093	0.0300	7.5000e-004	7.0824
<b>Total</b>	<b>0.1463</b>	<b>0.2194</b>	<b>0.7062</b>	<b>2.4700e-003</b>	<b>0.2157</b>	<b>4.2200e-003</b>	<b>0.2199</b>	<b>0.0578</b>	<b>4.0900e-003</b>	<b>0.0619</b>	<b>3.6184</b>	<b>282.2575</b>	<b>285.8759</b>	<b>0.2387</b>	<b>1.5000e-003</b>	<b>292.2900</b>

Chadwick Estates - Los Angeles-South Coast County, 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	0.1036	4.5600e-003	0.1455	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	3.5978	3.5978	2.9000e-004	6.0000e-005	3.6234
Energy	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	57.1408	57.1408	1.9100e-003	6.9000e-004	57.3938
Mobile	0.0406	0.1971	0.5532	2.3300e-003	0.2157	1.7500e-003	0.2174	0.0578	1.6200e-003	0.0594	0.0000	215.6990	215.6990	9.7600e-003	0.0000	215.9429
Waste						0.0000	0.0000		0.0000	0.0000	3.3291	0.0000	3.3291	0.1967	0.0000	8.2476
Water						0.0000	0.0000		0.0000	0.0000	0.2894	5.8200	6.1093	0.0300	7.5000e-004	7.0824
<b>Total</b>	<b>0.1463</b>	<b>0.2194</b>	<b>0.7062</b>	<b>2.4700e-003</b>	<b>0.2157</b>	<b>4.2200e-003</b>	<b>0.2199</b>	<b>0.0578</b>	<b>4.0900e-003</b>	<b>0.0619</b>	<b>3.6184</b>	<b>282.2575</b>	<b>285.8759</b>	<b>0.2387</b>	<b>1.5000e-003</b>	<b>292.2900</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/1/2022	3/16/2023	5	250	
2	Drainage Improvements	Grading	11/11/2022	3/16/2023	5	90	
3	Paving & Utilities	Paving	3/17/2023	7/20/2023	5	90	
4	Entry Road Paving	Paving	7/21/2023	8/15/2023	5	18	
5	Building Construction	Building Construction	8/16/2023	6/13/2024	5	217	
6	Architectural Coating	Architectural Coating	6/14/2024	7/9/2024	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 44.4

Acres of Paving: 0

Residential Indoor: 51,030; Residential Outdoor: 17,010; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Off-Highway Trucks	2	6.00	402	0.38
Grading	Plate Compactors	1	6.00	8	0.43
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Drainage Improvements	Excavators	1	8.00	158	0.38
Drainage Improvements	Graders	1	8.00	187	0.41
Drainage Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Drainage Improvements	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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Paving & Utilities	Cement and Mortar Mixers	2	6.00	9	0.56
Paving & Utilities	Pavers	1	8.00	130	0.42
Paving & Utilities	Paving Equipment	2	6.00	132	0.36
Paving & Utilities	Rollers	2	6.00	80	0.38
Paving & Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Entry Road Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Entry Road Paving	Pavers	1	8.00	130	0.42
Entry Road Paving	Paving Equipment	2	6.00	132	0.36
Entry Road Paving	Rollers	2	6.00	80	0.38
Entry Road Paving	Tractors/Loaders/Backhoes	1	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Drainage Improvements	Plate Compactors	1	8.00	8	0.43
Drainage Improvements	Off-Highway Trucks	1	6.00	402	0.38

**Trips and VMT**

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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	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage Improvements	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Utilities	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Entry Road Paving	8	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2039	0.0000	1.2039	0.6514	0.0000	0.6514	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3943	4.0293	2.5257	6.3700e-003		0.1717	0.1717		0.1580	0.1580	0.0000	558.7355	558.7355	0.1802	0.0000	563.2405
<b>Total</b>	<b>0.3943</b>	<b>4.0293</b>	<b>2.5257</b>	<b>6.3700e-003</b>	<b>1.2039</b>	<b>0.1717</b>	<b>1.3755</b>	<b>0.6514</b>	<b>0.1580</b>	<b>0.8093</b>	<b>0.0000</b>	<b>558.7355</b>	<b>558.7355</b>	<b>0.1802</b>	<b>0.0000</b>	<b>563.2405</b>



Chadwick Estates - Los Angeles-South Coast County, Annual

**3.2 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0111	8.3000e-003	0.0956	2.9000e-004	0.0301	2.4000e-004	0.0303	7.9900e-003	2.2000e-004	8.2100e-003	0.0000	26.1820	26.1820	7.2000e-004	0.0000	26.2000
<b>Total</b>	<b>0.0111</b>	<b>8.3000e-003</b>	<b>0.0956</b>	<b>2.9000e-004</b>	<b>0.0301</b>	<b>2.4000e-004</b>	<b>0.0303</b>	<b>7.9900e-003</b>	<b>2.2000e-004</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>26.1820</b>	<b>26.1820</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>26.2000</b>

**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					0.4695	0.0000	0.4695	0.2540	0.0000	0.2540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3943	4.0293	2.5257	6.3700e-003		0.1717	0.1717		0.1580	0.1580	0.0000	558.7348	558.7348	0.1802	0.0000	563.2398
<b>Total</b>	<b>0.3943</b>	<b>4.0293</b>	<b>2.5257</b>	<b>6.3700e-003</b>	<b>0.4695</b>	<b>0.1717</b>	<b>0.6412</b>	<b>0.2540</b>	<b>0.1580</b>	<b>0.4120</b>	<b>0.0000</b>	<b>558.7348</b>	<b>558.7348</b>	<b>0.1802</b>	<b>0.0000</b>	<b>563.2398</b>

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**3.2 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0111	8.3000e-003	0.0956	2.9000e-004	0.0259	2.4000e-004	0.0261	6.9600e-003	2.2000e-004	7.1800e-003	0.0000	26.1820	26.1820	7.2000e-004	0.0000	26.2000
<b>Total</b>	<b>0.0111</b>	<b>8.3000e-003</b>	<b>0.0956</b>	<b>2.9000e-004</b>	<b>0.0259</b>	<b>2.4000e-004</b>	<b>0.0261</b>	<b>6.9600e-003</b>	<b>2.2000e-004</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>26.1820</b>	<b>26.1820</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>26.2000</b>

**3.2 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3487	0.0000	0.3487	0.1813	0.0000	0.1813	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0963	0.9519	0.6653	1.7600e-003		0.0391	0.0391		0.0360	0.0360	0.0000	153.9751	153.9751	0.0497	0.0000	155.2166
<b>Total</b>	<b>0.0963</b>	<b>0.9519</b>	<b>0.6653</b>	<b>1.7600e-003</b>	<b>0.3487</b>	<b>0.0391</b>	<b>0.3878</b>	<b>0.1813</b>	<b>0.0360</b>	<b>0.2173</b>	<b>0.0000</b>	<b>153.9751</b>	<b>153.9751</b>	<b>0.0497</b>	<b>0.0000</b>	<b>155.2166</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.2 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.8700e-003	2.0700e-003	0.0242	8.0000e-005	8.2800e-003	6.0000e-005	8.3500e-003	2.2000e-003	6.0000e-005	2.2600e-003	0.0000	6.9495	6.9495	1.8000e-004	0.0000	6.9539
<b>Total</b>	<b>2.8700e-003</b>	<b>2.0700e-003</b>	<b>0.0242</b>	<b>8.0000e-005</b>	<b>8.2800e-003</b>	<b>6.0000e-005</b>	<b>8.3500e-003</b>	<b>2.2000e-003</b>	<b>6.0000e-005</b>	<b>2.2600e-003</b>	<b>0.0000</b>	<b>6.9495</b>	<b>6.9495</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>6.9539</b>

**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					0.1360	0.0000	0.1360	0.0707	0.0000	0.0707	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0963	0.9519	0.6653	1.7600e-003		0.0391	0.0391		0.0360	0.0360	0.0000	153.9749	153.9749	0.0497	0.0000	155.2164
<b>Total</b>	<b>0.0963</b>	<b>0.9519</b>	<b>0.6653</b>	<b>1.7600e-003</b>	<b>0.1360</b>	<b>0.0391</b>	<b>0.1751</b>	<b>0.0707</b>	<b>0.0360</b>	<b>0.1067</b>	<b>0.0000</b>	<b>153.9749</b>	<b>153.9749</b>	<b>0.0497</b>	<b>0.0000</b>	<b>155.2164</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.2 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.8700e-003	2.0700e-003	0.0242	8.0000e-005	7.1400e-003	6.0000e-005	7.2000e-003	1.9200e-003	6.0000e-005	1.9800e-003	0.0000	6.9495	6.9495	1.8000e-004	0.0000	6.9539
<b>Total</b>	<b>2.8700e-003</b>	<b>2.0700e-003</b>	<b>0.0242</b>	<b>8.0000e-005</b>	<b>7.1400e-003</b>	<b>6.0000e-005</b>	<b>7.2000e-003</b>	<b>1.9200e-003</b>	<b>6.0000e-005</b>	<b>1.9800e-003</b>	<b>0.0000</b>	<b>6.9495</b>	<b>6.9495</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>6.9539</b>

**3.3 Drainage Improvements - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1323	0.0000	0.1323	0.0622	0.0000	0.0622	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0429	0.4341	0.3240	7.2000e-004		0.0191	0.0191		0.0176	0.0176	0.0000	63.1253	63.1253	0.0203	0.0000	63.6326
<b>Total</b>	<b>0.0429</b>	<b>0.4341</b>	<b>0.3240</b>	<b>7.2000e-004</b>	<b>0.1323</b>	<b>0.0191</b>	<b>0.1513</b>	<b>0.0622</b>	<b>0.0176</b>	<b>0.0797</b>	<b>0.0000</b>	<b>63.1253</b>	<b>63.1253</b>	<b>0.0203</b>	<b>0.0000</b>	<b>63.6326</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.3 Drainage Improvements - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.4500e-003	1.0900e-003	0.0125	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.4350	3.4350	9.0000e-005	0.0000	3.4373
<b>Total</b>	<b>1.4500e-003</b>	<b>1.0900e-003</b>	<b>0.0125</b>	<b>4.0000e-005</b>	<b>3.9400e-003</b>	<b>3.0000e-005</b>	<b>3.9800e-003</b>	<b>1.0500e-003</b>	<b>3.0000e-005</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.4350</b>	<b>3.4350</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.4373</b>

**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					0.0516	0.0000	0.0516	0.0242	0.0000	0.0242	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0429	0.4341	0.3240	7.2000e-004		0.0191	0.0191		0.0176	0.0176	0.0000	63.1253	63.1253	0.0203	0.0000	63.6326
<b>Total</b>	<b>0.0429</b>	<b>0.4341</b>	<b>0.3240</b>	<b>7.2000e-004</b>	<b>0.0516</b>	<b>0.0191</b>	<b>0.0707</b>	<b>0.0242</b>	<b>0.0176</b>	<b>0.0418</b>	<b>0.0000</b>	<b>63.1253</b>	<b>63.1253</b>	<b>0.0203</b>	<b>0.0000</b>	<b>63.6326</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.3 Drainage Improvements - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.4500e-003	1.0900e-003	0.0125	4.0000e-005	3.4000e-003	3.0000e-005	3.4300e-003	9.1000e-004	3.0000e-005	9.4000e-004	0.0000	3.4350	3.4350	9.0000e-005	0.0000	3.4373
<b>Total</b>	<b>1.4500e-003</b>	<b>1.0900e-003</b>	<b>0.0125</b>	<b>4.0000e-005</b>	<b>3.4000e-003</b>	<b>3.0000e-005</b>	<b>3.4300e-003</b>	<b>9.1000e-004</b>	<b>3.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>3.4350</b>	<b>3.4350</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.4373</b>

**3.3 Drainage Improvements - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1865	0.0000	0.1865	0.0920	0.0000	0.0920	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0575	0.5633	0.4705	1.0800e-003		0.0238	0.0238		0.0219	0.0219	0.0000	94.7204	94.7204	0.0305	0.0000	95.4816
<b>Total</b>	<b>0.0575</b>	<b>0.5633</b>	<b>0.4705</b>	<b>1.0800e-003</b>	<b>0.1865</b>	<b>0.0238</b>	<b>0.2103</b>	<b>0.0920</b>	<b>0.0219</b>	<b>0.1139</b>	<b>0.0000</b>	<b>94.7204</b>	<b>94.7204</b>	<b>0.0305</b>	<b>0.0000</b>	<b>95.4816</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.3 Drainage Improvements - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0500e-003	1.4800e-003	0.0173	5.0000e-005	5.9200e-003	5.0000e-005	5.9600e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.9639	4.9639	1.3000e-004	0.0000	4.9671
<b>Total</b>	<b>2.0500e-003</b>	<b>1.4800e-003</b>	<b>0.0173</b>	<b>5.0000e-005</b>	<b>5.9200e-003</b>	<b>5.0000e-005</b>	<b>5.9600e-003</b>	<b>1.5700e-003</b>	<b>4.0000e-005</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>4.9639</b>	<b>4.9639</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>4.9671</b>

**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					0.0727	0.0000	0.0727	0.0359	0.0000	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0575	0.5633	0.4705	1.0800e-003		0.0238	0.0238		0.0219	0.0219	0.0000	94.7203	94.7203	0.0305	0.0000	95.4815
<b>Total</b>	<b>0.0575</b>	<b>0.5633</b>	<b>0.4705</b>	<b>1.0800e-003</b>	<b>0.0727</b>	<b>0.0238</b>	<b>0.0965</b>	<b>0.0359</b>	<b>0.0219</b>	<b>0.0578</b>	<b>0.0000</b>	<b>94.7203</b>	<b>94.7203</b>	<b>0.0305</b>	<b>0.0000</b>	<b>95.4815</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.3 Drainage Improvements - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0500e-003	1.4800e-003	0.0173	5.0000e-005	5.1000e-003	5.0000e-005	5.1400e-003	1.3700e-003	4.0000e-005	1.4100e-003	0.0000	4.9639	4.9639	1.3000e-004	0.0000	4.9671
<b>Total</b>	<b>2.0500e-003</b>	<b>1.4800e-003</b>	<b>0.0173</b>	<b>5.0000e-005</b>	<b>5.1000e-003</b>	<b>5.0000e-005</b>	<b>5.1400e-003</b>	<b>1.3700e-003</b>	<b>4.0000e-005</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>4.9639</b>	<b>4.9639</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>4.9671</b>

**3.4 Paving & Utilities - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0413	0.3956	0.5486	8.5000e-004		0.0196	0.0196		0.0181	0.0181	0.0000	73.7037	73.7037	0.0232	0.0000	74.2826
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0413</b>	<b>0.3956</b>	<b>0.5486</b>	<b>8.5000e-004</b>		<b>0.0196</b>	<b>0.0196</b>		<b>0.0181</b>	<b>0.0181</b>	<b>0.0000</b>	<b>73.7037</b>	<b>73.7037</b>	<b>0.0232</b>	<b>0.0000</b>	<b>74.2826</b>



Chadwick Estates - Los Angeles-South Coast County, Annual

**3.4 Paving & Utilities - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4100e-003	2.4600e-003	0.0288	9.0000e-005	9.8600e-003	8.0000e-005	9.9400e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	8.2732	8.2732	2.1000e-004	0.0000	8.2785
<b>Total</b>	<b>3.4100e-003</b>	<b>2.4600e-003</b>	<b>0.0288</b>	<b>9.0000e-005</b>	<b>9.8600e-003</b>	<b>8.0000e-005</b>	<b>9.9400e-003</b>	<b>2.6200e-003</b>	<b>7.0000e-005</b>	<b>2.6900e-003</b>	<b>0.0000</b>	<b>8.2732</b>	<b>8.2732</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>8.2785</b>

**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	0.0413	0.3956	0.5486	8.5000e-004		0.0196	0.0196		0.0181	0.0181	0.0000	73.7036	73.7036	0.0232	0.0000	74.2825
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0413</b>	<b>0.3956</b>	<b>0.5486</b>	<b>8.5000e-004</b>		<b>0.0196</b>	<b>0.0196</b>		<b>0.0181</b>	<b>0.0181</b>	<b>0.0000</b>	<b>73.7036</b>	<b>73.7036</b>	<b>0.0232</b>	<b>0.0000</b>	<b>74.2825</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.4 Paving & Utilities - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4100e-003	2.4600e-003	0.0288	9.0000e-005	8.4900e-003	8.0000e-005	8.5700e-003	2.2800e-003	7.0000e-005	2.3500e-003	0.0000	8.2732	8.2732	2.1000e-004	0.0000	8.2785
<b>Total</b>	<b>3.4100e-003</b>	<b>2.4600e-003</b>	<b>0.0288</b>	<b>9.0000e-005</b>	<b>8.4900e-003</b>	<b>8.0000e-005</b>	<b>8.5700e-003</b>	<b>2.2800e-003</b>	<b>7.0000e-005</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>8.2732</b>	<b>8.2732</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>8.2785</b>

**3.5 Entry Road Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.2600e-003</b>	<b>0.0791</b>	<b>0.1097</b>	<b>1.7000e-004</b>		<b>3.9200e-003</b>	<b>3.9200e-003</b>		<b>3.6200e-003</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>14.7407</b>	<b>14.7407</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8565</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.5 Entry Road Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.7000e-004	4.3300e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2410	1.2410	3.0000e-005	0.0000	1.2418
<b>Total</b>	<b>5.1000e-004</b>	<b>3.7000e-004</b>	<b>4.3300e-003</b>	<b>1.0000e-005</b>	<b>1.4800e-003</b>	<b>1.0000e-005</b>	<b>1.4900e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2410</b>	<b>1.2410</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.2418</b>

**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	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.2600e-003</b>	<b>0.0791</b>	<b>0.1097</b>	<b>1.7000e-004</b>		<b>3.9200e-003</b>	<b>3.9200e-003</b>		<b>3.6200e-003</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>14.7407</b>	<b>14.7407</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8565</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.5 Entry Road Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.7000e-004	4.3300e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.2410	1.2410	3.0000e-005	0.0000	1.2418
<b>Total</b>	<b>5.1000e-004</b>	<b>3.7000e-004</b>	<b>4.3300e-003</b>	<b>1.0000e-005</b>	<b>1.2700e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2410</b>	<b>1.2410</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.2418</b>

**3.6 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0771	0.7049	0.7960	1.3200e-003		0.0343	0.0343		0.0323	0.0323	0.0000	113.5843	113.5843	0.0270	0.0000	114.2598
<b>Total</b>	<b>0.0771</b>	<b>0.7049</b>	<b>0.7960</b>	<b>1.3200e-003</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0323</b>	<b>0.0323</b>	<b>0.0000</b>	<b>113.5843</b>	<b>113.5843</b>	<b>0.0270</b>	<b>0.0000</b>	<b>114.2598</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.6 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.4700e-003	1.1100e-003	1.0000e-005	3.1000e-004	0.0000	3.1000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.1597	1.1597	6.0000e-005	0.0000	1.1613
Worker	9.3000e-004	6.7000e-004	7.8500e-003	2.0000e-005	2.6800e-003	2.0000e-005	2.7100e-003	7.1000e-004	2.0000e-005	7.3000e-004	0.0000	2.2521	2.2521	6.0000e-005	0.0000	2.2536
<b>Total</b>	<b>1.0400e-003</b>	<b>4.1400e-003</b>	<b>8.9600e-003</b>	<b>3.0000e-005</b>	<b>2.9900e-003</b>	<b>2.0000e-005</b>	<b>3.0200e-003</b>	<b>8.0000e-004</b>	<b>2.0000e-005</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>3.4119</b>	<b>3.4119</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.4149</b>

**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	0.0771	0.7049	0.7960	1.3200e-003		0.0343	0.0343		0.0323	0.0323	0.0000	113.5842	113.5842	0.0270	0.0000	114.2597
<b>Total</b>	<b>0.0771</b>	<b>0.7049</b>	<b>0.7960</b>	<b>1.3200e-003</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0323</b>	<b>0.0323</b>	<b>0.0000</b>	<b>113.5842</b>	<b>113.5842</b>	<b>0.0270</b>	<b>0.0000</b>	<b>114.2597</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.6 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.4700e-003	1.1100e-003	1.0000e-005	2.7000e-004	0.0000	2.8000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	1.1597	1.1597	6.0000e-005	0.0000	1.1613
Worker	9.3000e-004	6.7000e-004	7.8500e-003	2.0000e-005	2.3100e-003	2.0000e-005	2.3300e-003	6.2000e-004	2.0000e-005	6.4000e-004	0.0000	2.2521	2.2521	6.0000e-005	0.0000	2.2536
<b>Total</b>	<b>1.0400e-003</b>	<b>4.1400e-003</b>	<b>8.9600e-003</b>	<b>3.0000e-005</b>	<b>2.5800e-003</b>	<b>2.0000e-005</b>	<b>2.6100e-003</b>	<b>7.0000e-004</b>	<b>2.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>3.4119</b>	<b>3.4119</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.4149</b>

**3.6 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0876	0.7999	0.9619	1.6000e-003		0.0365	0.0365		0.0343	0.0343	0.0000	137.9502	137.9502	0.0326	0.0000	138.7658
<b>Total</b>	<b>0.0876</b>	<b>0.7999</b>	<b>0.9619</b>	<b>1.6000e-003</b>		<b>0.0365</b>	<b>0.0365</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>137.9502</b>	<b>137.9502</b>	<b>0.0326</b>	<b>0.0000</b>	<b>138.7658</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.6 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	4.2000e-003	1.3100e-003	1.0000e-005	3.7000e-004	0.0000	3.8000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.4027	1.4027	8.0000e-005	0.0000	1.4045
Worker	1.0700e-003	7.4000e-004	8.8800e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6499	2.6499	6.0000e-005	0.0000	2.6516
<b>Total</b>	<b>1.2000e-003</b>	<b>4.9400e-003</b>	<b>0.0102</b>	<b>4.0000e-005</b>	<b>3.6300e-003</b>	<b>2.0000e-005</b>	<b>3.6600e-003</b>	<b>9.8000e-004</b>	<b>2.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>4.0526</b>	<b>4.0526</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>4.0561</b>

**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	0.0876	0.7999	0.9619	1.6000e-003		0.0365	0.0365		0.0343	0.0343	0.0000	137.9501	137.9501	0.0326	0.0000	138.7656
<b>Total</b>	<b>0.0876</b>	<b>0.7999</b>	<b>0.9619</b>	<b>1.6000e-003</b>		<b>0.0365</b>	<b>0.0365</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>137.9501</b>	<b>137.9501</b>	<b>0.0326</b>	<b>0.0000</b>	<b>138.7656</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.6 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	4.2000e-003	1.3100e-003	1.0000e-005	3.3000e-004	0.0000	3.4000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	1.4027	1.4027	8.0000e-005	0.0000	1.4045
Worker	1.0700e-003	7.4000e-004	8.8800e-003	3.0000e-005	2.8100e-003	2.0000e-005	2.8300e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.6499	2.6499	6.0000e-005	0.0000	2.6516
<b>Total</b>	<b>1.2000e-003</b>	<b>4.9400e-003</b>	<b>0.0102</b>	<b>4.0000e-005</b>	<b>3.1400e-003</b>	<b>2.0000e-005</b>	<b>3.1700e-003</b>	<b>8.5000e-004</b>	<b>2.0000e-005</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>4.0526</b>	<b>4.0526</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>4.0561</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
<b>Total</b>	<b>0.0805</b>	<b>0.0110</b>	<b>0.0163</b>	<b>3.0000e-005</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.3012</b>



Chadwick Estates - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0802	0.0802	0.0000	0.0000	0.0802
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0802</b>	<b>0.0802</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0802</b>

**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	0.0788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
<b>Total</b>	<b>0.0805</b>	<b>0.0110</b>	<b>0.0163</b>	<b>3.0000e-005</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.3012</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0802	0.0802	0.0000	0.0000	0.0802
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0802</b>	<b>0.0802</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0802</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Chadwick Estates - Los Angeles-South Coast County, 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
Category	tons/yr										MT/yr					
Mitigated	0.0406	0.1971	0.5532	2.3300e-003	0.2157	1.7500e-003	0.2174	0.0578	1.6200e-003	0.0594	0.0000	215.6990	215.6990	9.7600e-003	0.0000	215.9429
Unmitigated	0.0406	0.1971	0.5532	2.3300e-003	0.2157	1.7500e-003	0.2174	0.0578	1.6200e-003	0.0594	0.0000	215.6990	215.6990	9.7600e-003	0.0000	215.9429

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	168.00	174.86	149.38	568,341	568,341
Total	168.00	174.86	149.38	568,341	568,341

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

Chadwick Estates - Los Angeles-South Coast County, Annual

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	36.6147	36.6147	1.5100e-003	3.1000e-004	36.7457
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	36.6147	36.6147	1.5100e-003	3.1000e-004	36.7457
NaturalGas Mitigated	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5261	20.5261	3.9000e-004	3.8000e-004	20.6481
NaturalGas Unmitigated	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5261	20.5261	3.9000e-004	3.8000e-004	20.6481

**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					
Single Family Housing	384644	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5261	20.5261	3.9000e-004	3.8000e-004	20.6481
<b>Total</b>		<b>2.0700e-003</b>	<b>0.0177</b>	<b>7.5400e-003</b>	<b>1.1000e-004</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>20.5261</b>	<b>20.5261</b>	<b>3.9000e-004</b>	<b>3.8000e-004</b>	<b>20.6481</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	384644	2.0700e-003	0.0177	7.5400e-003	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5261	20.5261	3.9000e-004	3.8000e-004	20.6481
<b>Total</b>		<b>2.0700e-003</b>	<b>0.0177</b>	<b>7.5400e-003</b>	<b>1.1000e-004</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>20.5261</b>	<b>20.5261</b>	<b>3.9000e-004</b>	<b>3.8000e-004</b>	<b>20.6481</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	114916	36.6147	1.5100e-003	3.1000e-004	36.7457
<b>Total</b>		<b>36.6147</b>	<b>1.5100e-003</b>	<b>3.1000e-004</b>	<b>36.7457</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	114916	36.6147	1.5100e-003	3.1000e-004	36.7457
<b>Total</b>		<b>36.6147</b>	<b>1.5100e-003</b>	<b>3.1000e-004</b>	<b>36.7457</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1036	4.5600e-003	0.1455	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	3.5978	3.5978	2.9000e-004	6.0000e-005	3.6234
Unmitigated	0.1036	4.5600e-003	0.1455	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	3.5978	3.5978	2.9000e-004	6.0000e-005	3.6234

Chadwick Estates - Los Angeles-South Coast County, Annual

**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	7.8800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.4000e-004	2.9000e-003	1.2400e-003	2.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	3.3619	3.3619	6.0000e-005	6.0000e-005	3.3819
Landscaping	4.3300e-003	1.6600e-003	0.1442	1.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	0.2358	0.2358	2.3000e-004	0.0000	0.2415
<b>Total</b>	<b>0.1036</b>	<b>4.5600e-003</b>	<b>0.1455</b>	<b>3.0000e-005</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.5978</b>	<b>3.5978</b>	<b>2.9000e-004</b>	<b>6.0000e-005</b>	<b>3.6234</b>

Chadwick Estates - Los Angeles-South Coast County, 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	7.8800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.4000e-004	2.9000e-003	1.2400e-003	2.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	3.3619	3.3619	6.0000e-005	6.0000e-005	3.3819
Landscaping	4.3300e-003	1.6600e-003	0.1442	1.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	0.2358	0.2358	2.3000e-004	0.0000	0.2415
<b>Total</b>	<b>0.1036</b>	<b>4.5600e-003</b>	<b>0.1455</b>	<b>3.0000e-005</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.5978</b>	<b>3.5978</b>	<b>2.9000e-004</b>	<b>6.0000e-005</b>	<b>3.6234</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



Chadwick Estates - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.1093	0.0300	7.5000e-004	7.0824
Unmitigated	6.1093	0.0300	7.5000e-004	7.0824

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.912156 / 0.575055	6.1093	0.0300	7.5000e-004	7.0824
<b>Total</b>		<b>6.1093</b>	<b>0.0300</b>	<b>7.5000e-004</b>	<b>7.0824</b>

Chadwick Estates - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.912156 / 0.575055	6.1093	0.0300	7.5000e-004	7.0824
<b>Total</b>		<b>6.1093</b>	<b>0.0300</b>	<b>7.5000e-004</b>	<b>7.0824</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.3291	0.1967	0.0000	8.2476
Unmitigated	3.3291	0.1967	0.0000	8.2476

Chadwick Estates - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	16.4	3.3291	0.1967	0.0000	8.2476
<b>Total</b>		<b>3.3291</b>	<b>0.1967</b>	<b>0.0000</b>	<b>8.2476</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	16.4	3.3291	0.1967	0.0000	8.2476
<b>Total</b>		<b>3.3291</b>	<b>0.1967</b>	<b>0.0000</b>	<b>8.2476</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Chadwick Estates - Los Angeles-South Coast County, Annual

**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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