

**APPENDIX D: GREENHOUSE GAS EMISSIONS WORKSHEETS**



Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**Olympic and Hill Proposed Project**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,075.00	Space	0.00	430,000.00	0
Quality Restaurant	8.00	1000sqft	0.00	8,000.00	0
Apartments High Rise	700.00	Dwelling Unit	1.16	643,021.00	1176
Strip Mall	7.00	1000sqft	0.00	7,000.00	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>	11			<b>Operational Year</b>	2022
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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**

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

Project Characteristics -

Land Use - Project data per Site Plan dated 5.5.17

Construction Phase - Approximate 30-month construction timeline.

Off-road Equipment - Architectural Coating: Equipment use on worst-case day.

Off-road Equipment - Building Construction: Equipment use on worst-case day.

Off-road Equipment - Grading: Equipment use on worst-case day.

Off-road Equipment -

Off-road Equipment - Site Preparation: Equipment use on worst-case day.

Trips and VMT - Assumes 14 cy haul truck capacity and 105 haul trips per grading day. Soil export to be deposited at Azusa Landfill (47 mi roundtrip)

Grading - Approximate 1,000 cy asphalt debris and 206,100 cy of soil export for 4-level subterranean garage.

Vehicle Trips - Trip rates were adjusted to incorporate trip reductions (internal capture, transit credit, and pass-by). Trip reductions per Traffic Study (5.3.17)

Woodstoves - No wood fireplaces or woodstoves are proposed.

Sequestration - 175 trees proposed on-site.

Construction Off-road Equipment Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	96.00
tblConstructionPhase	NumDays	200.00	400.00
tblConstructionPhase	NumDays	4.00	146.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	NumberGas	595.00	700.00
tblFireplaces	NumberNoFireplace	70.00	0.00

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

tblFireplaces	NumberWood	35.00	0.00
tblGrading	MaterialExported	0.00	206,100.00
tblGrading	MaterialExported	0.00	1,126.00
tblLandUse	LandUseSquareFeet	700,000.00	643,021.00
tblLandUse	LotAcreage	9.67	0.00
tblLandUse	LotAcreage	0.18	0.00
tblLandUse	LotAcreage	11.29	1.16
tblLandUse	LotAcreage	0.16	0.00
tblLandUse	Population	2,002.00	1,176.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblSequestration	NumberOfNewTrees	0.00	175.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripNumber	111.00	142.00
tblTripsAndVMT	HaulingTripNumber	25,763.00	29,443.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	148.00	100.00
tblTripsAndVMT	VendorTripNumber	0.00	50.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	WorkerTripNumber	10.00	5.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

## Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	38.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	4.98	4.10
tblVehicleTrips	ST_TR	94.36	59.41
tblVehicleTrips	ST_TR	42.04	11.78
tblVehicleTrips	SU_TR	3.65	3.01
tblVehicleTrips	SU_TR	72.16	45.43
tblVehicleTrips	SU_TR	20.43	5.73
tblVehicleTrips	WD_TR	4.20	4.07
tblVehicleTrips	WD_TR	89.95	56.63
tblVehicleTrips	WD_TR	44.32	12.43
tblWoodstoves	NumberCatalytic	35.00	0.00
tblWoodstoves	NumberNoncatalytic	35.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

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Olympic and Hill Proposed Project - 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					
2018	0.1099	2.3980	0.6689	5.1700e-003	0.4510	0.0377	0.4888	0.1545	0.0350	0.1895	0.0000	500.0334	500.0334	0.0504	0.0000	501.2924
2019	0.8430	8.2490	6.2130	0.0234	1.3547	0.2132	1.5679	0.4411	0.2040	0.6451	0.0000	2,176.5100	2,176.5100	0.1845	0.0000	2,181.1217
2020	1.6342	4.4201	6.1174	0.0165	0.9500	0.1711	1.1211	0.2541	0.1663	0.4204	0.0000	1,476.2951	1,476.2951	0.1002	0.0000	1,478.8008
2021	1.3371	0.5254	0.5988	1.5100e-003	0.0553	0.0211	0.0764	0.0149	0.0206	0.0355	0.0000	136.8592	136.8592	0.0127	0.0000	137.1757
<b>Maximum</b>	<b>1.6342</b>	<b>8.2490</b>	<b>6.2130</b>	<b>0.0234</b>	<b>1.3547</b>	<b>0.2132</b>	<b>1.5679</b>	<b>0.4411</b>	<b>0.2040</b>	<b>0.6451</b>	<b>0.0000</b>	<b>2,176.5100</b>	<b>2,176.5100</b>	<b>0.1845</b>	<b>0.0000</b>	<b>2,181.1217</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**2.1 Overall Construction**

**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					
2018	0.1099	2.3980	0.6689	5.1700e-003	0.3445	0.0377	0.3822	0.1058	0.0350	0.1409	0.0000	500.0333	500.0333	0.0504	0.0000	501.2923
2019	0.8430	8.2490	6.2130	0.0234	1.1667	0.2132	1.3799	0.3474	0.2040	0.5514	0.0000	2,176.5095	2,176.5095	0.1845	0.0000	2,181.1212
2020	1.6342	4.4201	6.1174	0.0165	0.9500	0.1711	1.1211	0.2541	0.1663	0.4204	0.0000	1,476.2946	1,476.2946	0.1002	0.0000	1,478.8003
2021	1.3371	0.5254	0.5988	1.5100e-003	0.0553	0.0211	0.0764	0.0149	0.0206	0.0355	0.0000	136.8591	136.8591	0.0127	0.0000	137.1756
<b>Maximum</b>	<b>1.6342</b>	<b>8.2490</b>	<b>6.2130</b>	<b>0.0234</b>	<b>1.1667</b>	<b>0.2132</b>	<b>1.3799</b>	<b>0.3474</b>	<b>0.2040</b>	<b>0.5514</b>	<b>0.0000</b>	<b>2,176.5095</b>	<b>2,176.5095</b>	<b>0.1845</b>	<b>0.0000</b>	<b>2,181.1212</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>10.48</b>	<b>0.00</b>	<b>9.05</b>	<b>16.47</b>	<b>0.00</b>	<b>11.03</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2018	1-31-2019	3.7856	3.7856
2	2-1-2019	4-30-2019	3.5953	3.5953
3	5-1-2019	7-31-2019	1.5337	1.5337
4	8-1-2019	10-31-2019	1.5397	1.5397
5	11-1-2019	1-31-2020	1.5090	1.5090
6	2-1-2020	4-30-2020	1.3888	1.3888
7	5-1-2020	7-31-2020	1.4090	1.4090
8	8-1-2020	10-31-2020	1.4144	1.4144

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

9	11-1-2020	1-31-2021	2.0067	2.0067
10	2-1-2021	4-30-2021	1.2080	1.2080
		Highest	3.7856	3.7856

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	2.8562	0.2286	7.3023	1.3100e-003		0.0517	0.0517		0.0517	0.0517	0.0000	179.9149	179.9149	0.0147	3.0800e-003	181.2000
Energy	0.0448	0.3884	0.2030	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	3,640.0896	3,640.0896	0.0840	0.0238	3,649.2669
Mobile	1.0085	5.8280	14.2575	0.0555	4.6818	0.0438	4.7255	1.2546	0.0409	1.2954	0.0000	5,125.4412	5,125.4412	0.2403	0.0000	5,131.4497
Waste						0.0000	0.0000		0.0000	0.0000	68.3369	0.0000	68.3369	4.0386	0.0000	169.3018
Water						0.0000	0.0000		0.0000	0.0000	15.4041	532.9705	548.3747	1.5947	0.0400	600.1519
<b>Total</b>	<b>3.9095</b>	<b>6.4450</b>	<b>21.7628</b>	<b>0.0592</b>	<b>4.6818</b>	<b>0.1264</b>	<b>4.8082</b>	<b>1.2546</b>	<b>0.1235</b>	<b>1.3781</b>	<b>83.7410</b>	<b>9,478.4162</b>	<b>9,562.1573</b>	<b>5.9724</b>	<b>0.0668</b>	<b>9,731.3703</b>

Olympic and Hill Proposed Project - 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	2.8562	0.2286	7.3023	1.3100e-003		0.0517	0.0517		0.0517	0.0517	0.0000	179.9149	179.9149	0.0147	3.0800e-003	181.2000
Energy	0.0448	0.3884	0.2030	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	3,640.0896	3,640.0896	0.0840	0.0238	3,649.2669
Mobile	1.0085	5.8280	14.2575	0.0555	4.6818	0.0438	4.7255	1.2546	0.0409	1.2954	0.0000	5,125.4412	5,125.4412	0.2403	0.0000	5,131.4497
Waste						0.0000	0.0000		0.0000	0.0000	34.1685	0.0000	34.1685	2.0193	0.0000	84.6509
Water						0.0000	0.0000		0.0000	0.0000	12.3233	451.5136	463.8369	1.2764	0.0321	505.3102
<b>Total</b>	<b>3.9095</b>	<b>6.4450</b>	<b>21.7628</b>	<b>0.0592</b>	<b>4.6818</b>	<b>0.1264</b>	<b>4.8082</b>	<b>1.2546</b>	<b>0.1235</b>	<b>1.3781</b>	<b>46.4918</b>	<b>9,396.9593</b>	<b>9,443.4511</b>	<b>3.6347</b>	<b>0.0589</b>	<b>9,551.8777</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>44.48</b>	<b>0.86</b>	<b>1.24</b>	<b>39.14</b>	<b>11.78</b>	<b>1.84</b>

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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	123.9000
<b>Total</b>	<b>123.9000</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/1/2018	11/7/2018	5	5	
2	Grading	Grading	11/8/2018	4/26/2019	6	146	
3	Building Construction	Building Construction	4/27/2019	11/6/2020	5	400	
4	Architectural Coating	Architectural Coating	11/7/2020	3/22/2021	5	96	
5	Paving	Paving	3/23/2021	4/20/2021	5	21	

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 54.75**

**Acres of Paving: 0**

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**Residential Indoor: 1,302,118; Residential Outdoor: 434,039; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 25,800 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Architectural Coating	Air Compressors	5	6.00	78	0.48
Architectural Coating	Forklifts	1	8.00	89	0.20
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	5.00	10.00	142.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	29,443.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	690.00	100.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	7	138.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2018**

**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					0.0146	0.0000	0.0146	7.3900e-003	0.0000	7.3900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8100e-003	0.0617	0.0295	6.0000e-005		3.0500e-003	3.0500e-003		2.8600e-003	2.8600e-003	0.0000	5.2799	5.2799	1.3300e-003	0.0000	5.3131
<b>Total</b>	<b>5.8100e-003</b>	<b>0.0617</b>	<b>0.0295</b>	<b>6.0000e-005</b>	<b>0.0146</b>	<b>3.0500e-003</b>	<b>0.0176</b>	<b>7.3900e-003</b>	<b>2.8600e-003</b>	<b>0.0103</b>	<b>0.0000</b>	<b>5.2799</b>	<b>5.2799</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>5.3131</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.2 Site Preparation - 2018**

**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	7.2000e-004	0.0256	4.8200e-003	7.0000e-005	1.4600e-003	1.0000e-004	1.5700e-003	4.0000e-004	1.0000e-004	5.0000e-004	0.0000	6.4251	6.4251	4.3000e-004	0.0000	6.4359
Vendor	1.1000e-004	3.0900e-003	8.0000e-004	1.0000e-005	1.6000e-004	2.0000e-005	1.8000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.6245	0.6245	4.0000e-005	0.0000	0.6256
Worker	7.0000e-005	5.0000e-005	5.8000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1316	0.1316	0.0000	0.0000	0.1317
<b>Total</b>	<b>9.0000e-004</b>	<b>0.0288</b>	<b>6.2000e-003</b>	<b>8.0000e-005</b>	<b>1.7600e-003</b>	<b>1.2000e-004</b>	<b>1.8900e-003</b>	<b>4.9000e-004</b>	<b>1.2000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>7.1811</b>	<b>7.1811</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>7.1932</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					6.5500e-003	0.0000	6.5500e-003	3.3300e-003	0.0000	3.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8100e-003	0.0617	0.0295	6.0000e-005		3.0500e-003	3.0500e-003		2.8600e-003	2.8600e-003	0.0000	5.2799	5.2799	1.3300e-003	0.0000	5.3131
<b>Total</b>	<b>5.8100e-003</b>	<b>0.0617</b>	<b>0.0295</b>	<b>6.0000e-005</b>	<b>6.5500e-003</b>	<b>3.0500e-003</b>	<b>9.6000e-003</b>	<b>3.3300e-003</b>	<b>2.8600e-003</b>	<b>6.1900e-003</b>	<b>0.0000</b>	<b>5.2799</b>	<b>5.2799</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>5.3131</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.2 Site Preparation - 2018**

**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	7.2000e-004	0.0256	4.8200e-003	7.0000e-005	1.4600e-003	1.0000e-004	1.5700e-003	4.0000e-004	1.0000e-004	5.0000e-004	0.0000	6.4251	6.4251	4.3000e-004	0.0000	6.4359
Vendor	1.1000e-004	3.0900e-003	8.0000e-004	1.0000e-005	1.6000e-004	2.0000e-005	1.8000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.6245	0.6245	4.0000e-005	0.0000	0.6256
Worker	7.0000e-005	5.0000e-005	5.8000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1316	0.1316	0.0000	0.0000	0.1317
<b>Total</b>	<b>9.0000e-004</b>	<b>0.0288</b>	<b>6.2000e-003</b>	<b>8.0000e-005</b>	<b>1.7600e-003</b>	<b>1.2000e-004</b>	<b>1.8900e-003</b>	<b>4.9000e-004</b>	<b>1.2000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>7.1811</b>	<b>7.1811</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>7.1932</b>

**3.3 Grading - 2018**

**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					0.1792	0.0000	0.1792	0.0810	0.0000	0.0810	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0547	0.6325	0.3042	7.1000e-004		0.0280	0.0280		0.0257	0.0257	0.0000	64.6873	64.6873	0.0201	0.0000	65.1908
<b>Total</b>	<b>0.0547</b>	<b>0.6325</b>	<b>0.3042</b>	<b>7.1000e-004</b>	<b>0.1792</b>	<b>0.0280</b>	<b>0.2072</b>	<b>0.0810</b>	<b>0.0257</b>	<b>0.1068</b>	<b>0.0000</b>	<b>64.6873</b>	<b>64.6873</b>	<b>0.0201</b>	<b>0.0000</b>	<b>65.1908</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.3 Grading - 2018**

**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	0.0469	1.6739	0.3151	4.2900e-003	0.2523	6.5700e-003	0.2588	0.0647	6.2800e-003	0.0710	0.0000	419.7381	419.7381	0.0283	0.0000	420.4456
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	1.5900e-003	1.3000e-003	0.0140	3.0000e-005	3.2800e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	3.1470	3.1470	1.1000e-004	0.0000	3.1497
<b>Total</b>	<b>0.0484</b>	<b>1.6752</b>	<b>0.3290</b>	<b>4.3200e-003</b>	<b>0.2555</b>	<b>6.6000e-003</b>	<b>0.2621</b>	<b>0.0656</b>	<b>6.3000e-003</b>	<b>0.0719</b>	<b>0.0000</b>	<b>422.8851</b>	<b>422.8851</b>	<b>0.0284</b>	<b>0.0000</b>	<b>423.5953</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					0.0806	0.0000	0.0806	0.0365	0.0000	0.0365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0547	0.6325	0.3042	7.1000e-004		0.0280	0.0280		0.0257	0.0257	0.0000	64.6873	64.6873	0.0201	0.0000	65.1907
<b>Total</b>	<b>0.0547</b>	<b>0.6325</b>	<b>0.3042</b>	<b>7.1000e-004</b>	<b>0.0806</b>	<b>0.0280</b>	<b>0.1086</b>	<b>0.0365</b>	<b>0.0257</b>	<b>0.0622</b>	<b>0.0000</b>	<b>64.6873</b>	<b>64.6873</b>	<b>0.0201</b>	<b>0.0000</b>	<b>65.1907</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.3 Grading - 2018**

**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	0.0469	1.6739	0.3151	4.2900e-003	0.2523	6.5700e-003	0.2588	0.0647	6.2800e-003	0.0710	0.0000	419.7381	419.7381	0.0283	0.0000	420.4456
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	1.5900e-003	1.3000e-003	0.0140	3.0000e-005	3.2800e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	3.1470	3.1470	1.1000e-004	0.0000	3.1497
<b>Total</b>	<b>0.0484</b>	<b>1.6752</b>	<b>0.3290</b>	<b>4.3200e-003</b>	<b>0.2555</b>	<b>6.6000e-003</b>	<b>0.2621</b>	<b>0.0656</b>	<b>6.3000e-003</b>	<b>0.0719</b>	<b>0.0000</b>	<b>422.8851</b>	<b>422.8851</b>	<b>0.0284</b>	<b>0.0000</b>	<b>423.5953</b>

**3.3 Grading - 2019**

**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					0.3418	0.0000	0.3418	0.1704	0.0000	0.1704	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1122	1.2714	0.6504	1.5400e-003		0.0559	0.0559		0.0514	0.0514	0.0000	138.1703	138.1703	0.0437	0.0000	139.2632
<b>Total</b>	<b>0.1122</b>	<b>1.2714</b>	<b>0.6504</b>	<b>1.5400e-003</b>	<b>0.3418</b>	<b>0.0559</b>	<b>0.3977</b>	<b>0.1704</b>	<b>0.0514</b>	<b>0.2218</b>	<b>0.0000</b>	<b>138.1703</b>	<b>138.1703</b>	<b>0.0437</b>	<b>0.0000</b>	<b>139.2632</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.3 Grading - 2019**

**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	0.0966	3.4335	0.6698	9.2000e-003	0.2800	0.0130	0.2931	0.0748	0.0125	0.0872	0.0000	901.6093	901.6093	0.0607	0.0000	903.1278
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	3.1400e-003	2.4900e-003	0.0271	7.0000e-005	7.1300e-003	6.0000e-005	7.1900e-003	1.8900e-003	5.0000e-005	1.9500e-003	0.0000	6.6254	6.6254	2.1000e-004	0.0000	6.6306
<b>Total</b>	<b>0.0997</b>	<b>3.4359</b>	<b>0.6969</b>	<b>9.2700e-003</b>	<b>0.2872</b>	<b>0.0131</b>	<b>0.3002</b>	<b>0.0767</b>	<b>0.0125</b>	<b>0.0892</b>	<b>0.0000</b>	<b>908.2347</b>	<b>908.2347</b>	<b>0.0610</b>	<b>0.0000</b>	<b>909.7584</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					0.1538	0.0000	0.1538	0.0767	0.0000	0.0767	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1122	1.2714	0.6504	1.5400e-003		0.0559	0.0559		0.0514	0.0514	0.0000	138.1701	138.1701	0.0437	0.0000	139.2630
<b>Total</b>	<b>0.1122</b>	<b>1.2714</b>	<b>0.6504</b>	<b>1.5400e-003</b>	<b>0.1538</b>	<b>0.0559</b>	<b>0.2097</b>	<b>0.0767</b>	<b>0.0514</b>	<b>0.1281</b>	<b>0.0000</b>	<b>138.1701</b>	<b>138.1701</b>	<b>0.0437</b>	<b>0.0000</b>	<b>139.2630</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.3 Grading - 2019**

**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	0.0966	3.4335	0.6698	9.2000e-003	0.2800	0.0130	0.2931	0.0748	0.0125	0.0872	0.0000	901.6093	901.6093	0.0607	0.0000	903.1278
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	3.1400e-003	2.4900e-003	0.0271	7.0000e-005	7.1300e-003	6.0000e-005	7.1900e-003	1.8900e-003	5.0000e-005	1.9500e-003	0.0000	6.6254	6.6254	2.1000e-004	0.0000	6.6306
<b>Total</b>	<b>0.0997</b>	<b>3.4359</b>	<b>0.6969</b>	<b>9.2700e-003</b>	<b>0.2872</b>	<b>0.0131</b>	<b>0.3002</b>	<b>0.0767</b>	<b>0.0125</b>	<b>0.0892</b>	<b>0.0000</b>	<b>908.2347</b>	<b>908.2347</b>	<b>0.0610</b>	<b>0.0000</b>	<b>909.7584</b>

**3.4 Building Construction - 2019**

**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	0.3014	2.2755	2.0610	3.4300e-003		0.1322	0.1322		0.1287	0.1287	0.0000	288.5740	288.5740	0.0452	0.0000	289.7036
<b>Total</b>	<b>0.3014</b>	<b>2.2755</b>	<b>2.0610</b>	<b>3.4300e-003</b>		<b>0.1322</b>	<b>0.1322</b>		<b>0.1287</b>	<b>0.1287</b>	<b>0.0000</b>	<b>288.5740</b>	<b>288.5740</b>	<b>0.0452</b>	<b>0.0000</b>	<b>289.7036</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.4 Building Construction - 2019**

**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	0.0348	1.0319	0.2588	2.2700e-003	0.0558	6.7500e-003	0.0625	0.0161	6.4600e-003	0.0226	0.0000	219.1004	219.1004	0.0152	0.0000	219.4794
Worker	0.2949	0.2343	2.5460	6.8900e-003	0.6700	5.3100e-003	0.6753	0.1779	4.8900e-003	0.1828	0.0000	622.4307	622.4307	0.0195	0.0000	622.9171
<b>Total</b>	<b>0.3297</b>	<b>1.2662</b>	<b>2.8048</b>	<b>9.1600e-003</b>	<b>0.7258</b>	<b>0.0121</b>	<b>0.7378</b>	<b>0.1940</b>	<b>0.0114</b>	<b>0.2054</b>	<b>0.0000</b>	<b>841.5311</b>	<b>841.5311</b>	<b>0.0346</b>	<b>0.0000</b>	<b>842.3964</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	0.3014	2.2755	2.0610	3.4300e-003		0.1322	0.1322		0.1287	0.1287	0.0000	288.5736	288.5736	0.0452	0.0000	289.7033
<b>Total</b>	<b>0.3014</b>	<b>2.2755</b>	<b>2.0610</b>	<b>3.4300e-003</b>		<b>0.1322</b>	<b>0.1322</b>		<b>0.1287</b>	<b>0.1287</b>	<b>0.0000</b>	<b>288.5736</b>	<b>288.5736</b>	<b>0.0452</b>	<b>0.0000</b>	<b>289.7033</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.4 Building Construction - 2019**

**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	0.0348	1.0319	0.2588	2.2700e-003	0.0558	6.7500e-003	0.0625	0.0161	6.4600e-003	0.0226	0.0000	219.1004	219.1004	0.0152	0.0000	219.4794
Worker	0.2949	0.2343	2.5460	6.8900e-003	0.6700	5.3100e-003	0.6753	0.1779	4.8900e-003	0.1828	0.0000	622.4307	622.4307	0.0195	0.0000	622.9171
<b>Total</b>	<b>0.3297</b>	<b>1.2662</b>	<b>2.8048</b>	<b>9.1600e-003</b>	<b>0.7258</b>	<b>0.0121</b>	<b>0.7378</b>	<b>0.1940</b>	<b>0.0114</b>	<b>0.2054</b>	<b>0.0000</b>	<b>841.5311</b>	<b>841.5311</b>	<b>0.0346</b>	<b>0.0000</b>	<b>842.3964</b>

**3.4 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	0.3411	2.6516	2.5583	4.3200e-003		0.1450	0.1450		0.1412	0.1412	0.0000	361.2498	361.2498	0.0544	0.0000	362.6093
<b>Total</b>	<b>0.3411</b>	<b>2.6516</b>	<b>2.5583</b>	<b>4.3200e-003</b>		<b>0.1450</b>	<b>0.1450</b>		<b>0.1412</b>	<b>0.1412</b>	<b>0.0000</b>	<b>361.2498</b>	<b>361.2498</b>	<b>0.0544</b>	<b>0.0000</b>	<b>362.6093</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.4 Building Construction - 2020**

**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	0.0374	1.1899	0.2947	2.8300e-003	0.0703	5.8300e-003	0.0761	0.0203	5.5800e-003	0.0259	0.0000	274.2364	274.2364	0.0180	0.0000	274.6864
Worker	0.3435	0.2633	2.9138	8.4100e-003	0.8441	6.5200e-003	0.8506	0.2242	6.0100e-003	0.2302	0.0000	759.8609	759.8609	0.0218	0.0000	760.4060
<b>Total</b>	<b>0.3808</b>	<b>1.4532</b>	<b>3.2085</b>	<b>0.0112</b>	<b>0.9144</b>	<b>0.0124</b>	<b>0.9267</b>	<b>0.2445</b>	<b>0.0116</b>	<b>0.2560</b>	<b>0.0000</b>	<b>1,034.0972</b>	<b>1,034.0972</b>	<b>0.0398</b>	<b>0.0000</b>	<b>1,035.0924</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	0.3411	2.6516	2.5583	4.3200e-003		0.1450	0.1450		0.1412	0.1412	0.0000	361.2494	361.2494	0.0544	0.0000	362.6088
<b>Total</b>	<b>0.3411</b>	<b>2.6516</b>	<b>2.5583</b>	<b>4.3200e-003</b>		<b>0.1450</b>	<b>0.1450</b>		<b>0.1412</b>	<b>0.1412</b>	<b>0.0000</b>	<b>361.2494</b>	<b>361.2494</b>	<b>0.0544</b>	<b>0.0000</b>	<b>362.6088</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.4 Building Construction - 2020**

**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	0.0374	1.1899	0.2947	2.8300e-003	0.0703	5.8300e-003	0.0761	0.0203	5.5800e-003	0.0259	0.0000	274.2364	274.2364	0.0180	0.0000	274.6864
Worker	0.3435	0.2633	2.9138	8.4100e-003	0.8441	6.5200e-003	0.8506	0.2242	6.0100e-003	0.2302	0.0000	759.8609	759.8609	0.0218	0.0000	760.4060
<b>Total</b>	<b>0.3808</b>	<b>1.4532</b>	<b>3.2085</b>	<b>0.0112</b>	<b>0.9144</b>	<b>0.0124</b>	<b>0.9267</b>	<b>0.2445</b>	<b>0.0116</b>	<b>0.2560</b>	<b>0.0000</b>	<b>1,034.0972</b>	<b>1,034.0972</b>	<b>0.0398</b>	<b>0.0000</b>	<b>1,035.0924</b>

**3.5 Architectural Coating - 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					
Archit. Coating	0.8698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0272	0.2020	0.2229	3.5000e-004		0.0130	0.0130		0.0128	0.0128	0.0000	30.3897	30.3897	3.7000e-003	0.0000	30.4823
<b>Total</b>	<b>0.8970</b>	<b>0.2020</b>	<b>0.2229</b>	<b>3.5000e-004</b>		<b>0.0130</b>	<b>0.0130</b>		<b>0.0128</b>	<b>0.0128</b>	<b>0.0000</b>	<b>30.3897</b>	<b>30.3897</b>	<b>3.7000e-003</b>	<b>0.0000</b>	<b>30.4823</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.5 Architectural Coating - 2020**

**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	3.2700e-003	0.1041	0.0258	2.5000e-004	6.1500e-003	5.1000e-004	6.6600e-003	1.7700e-003	4.9000e-004	2.2600e-003	0.0000	23.9803	23.9803	1.5700e-003	0.0000	24.0197
Worker	0.0120	9.2100e-003	0.1019	2.9000e-004	0.0295	2.3000e-004	0.0298	7.8400e-003	2.1000e-004	8.0500e-003	0.0000	26.5781	26.5781	7.6000e-004	0.0000	26.5972
<b>Total</b>	<b>0.0153</b>	<b>0.1133</b>	<b>0.1277</b>	<b>5.4000e-004</b>	<b>0.0357</b>	<b>7.4000e-004</b>	<b>0.0364</b>	<b>9.6100e-003</b>	<b>7.0000e-004</b>	<b>0.0103</b>	<b>0.0000</b>	<b>50.5584</b>	<b>50.5584</b>	<b>2.3300e-003</b>	<b>0.0000</b>	<b>50.6168</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	0.8698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0272	0.2020	0.2229	3.5000e-004		0.0130	0.0130		0.0128	0.0128	0.0000	30.3896	30.3896	3.7000e-003	0.0000	30.4823
<b>Total</b>	<b>0.8970</b>	<b>0.2020</b>	<b>0.2229</b>	<b>3.5000e-004</b>		<b>0.0130</b>	<b>0.0130</b>		<b>0.0128</b>	<b>0.0128</b>	<b>0.0000</b>	<b>30.3896</b>	<b>30.3896</b>	<b>3.7000e-003</b>	<b>0.0000</b>	<b>30.4823</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.5 Architectural Coating - 2020**

**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	3.2700e-003	0.1041	0.0258	2.5000e-004	6.1500e-003	5.1000e-004	6.6600e-003	1.7700e-003	4.9000e-004	2.2600e-003	0.0000	23.9803	23.9803	1.5700e-003	0.0000	24.0197
Worker	0.0120	9.2100e-003	0.1019	2.9000e-004	0.0295	2.3000e-004	0.0298	7.8400e-003	2.1000e-004	8.0500e-003	0.0000	26.5781	26.5781	7.6000e-004	0.0000	26.5972
<b>Total</b>	<b>0.0153</b>	<b>0.1133</b>	<b>0.1277</b>	<b>5.4000e-004</b>	<b>0.0357</b>	<b>7.4000e-004</b>	<b>0.0364</b>	<b>9.6100e-003</b>	<b>7.0000e-004</b>	<b>0.0103</b>	<b>0.0000</b>	<b>50.5584</b>	<b>50.5584</b>	<b>2.3300e-003</b>	<b>0.0000</b>	<b>50.6168</b>

**3.5 Architectural Coating - 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					
Archit. Coating	1.2713					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0360	0.2683	0.3235	5.1000e-004		0.0161	0.0161		0.0159	0.0159	0.0000	44.4157	44.4157	5.0900e-003	0.0000	44.5430
<b>Total</b>	<b>1.3072</b>	<b>0.2683</b>	<b>0.3235</b>	<b>5.1000e-004</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>44.4157</b>	<b>44.4157</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>44.5430</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.5 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0500e-003	0.1379	0.0342	3.6000e-004	8.9800e-003	2.8000e-004	9.2600e-003	2.5900e-003	2.7000e-004	2.8600e-003	0.0000	34.7909	34.7909	2.2000e-003	0.0000	34.8459
Worker	0.0164	0.0121	0.1371	4.2000e-004	0.0432	3.2000e-004	0.0435	0.0115	3.0000e-004	0.0118	0.0000	37.5861	37.5861	1.0100e-003	0.0000	37.6113
<b>Total</b>	<b>0.0204</b>	<b>0.1500</b>	<b>0.1713</b>	<b>7.8000e-004</b>	<b>0.0521</b>	<b>6.0000e-004</b>	<b>0.0527</b>	<b>0.0141</b>	<b>5.7000e-004</b>	<b>0.0146</b>	<b>0.0000</b>	<b>72.3770</b>	<b>72.3770</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>72.4572</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	1.2713					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0360	0.2683	0.3235	5.1000e-004		0.0161	0.0161		0.0159	0.0159	0.0000	44.4156	44.4156	5.0900e-003	0.0000	44.5430
<b>Total</b>	<b>1.3072</b>	<b>0.2683</b>	<b>0.3235</b>	<b>5.1000e-004</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>44.4156</b>	<b>44.4156</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>44.5430</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.5 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0500e-003	0.1379	0.0342	3.6000e-004	8.9800e-003	2.8000e-004	9.2600e-003	2.5900e-003	2.7000e-004	2.8600e-003	0.0000	34.7909	34.7909	2.2000e-003	0.0000	34.8459
Worker	0.0164	0.0121	0.1371	4.2000e-004	0.0432	3.2000e-004	0.0435	0.0115	3.0000e-004	0.0118	0.0000	37.5861	37.5861	1.0100e-003	0.0000	37.6113
<b>Total</b>	<b>0.0204</b>	<b>0.1500</b>	<b>0.1713</b>	<b>7.8000e-004</b>	<b>0.0521</b>	<b>6.0000e-004</b>	<b>0.0527</b>	<b>0.0141</b>	<b>5.7000e-004</b>	<b>0.0146</b>	<b>0.0000</b>	<b>72.3770</b>	<b>72.3770</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>72.4572</b>

**3.6 Paving - 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	8.1300e-003	0.0813	0.0930	1.4000e-004		4.3600e-003	4.3600e-003		4.0200e-003	4.0200e-003	0.0000	12.3532	12.3532	3.9200e-003	0.0000	12.4511
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>8.1300e-003</b>	<b>0.0813</b>	<b>0.0930</b>	<b>1.4000e-004</b>		<b>4.3600e-003</b>	<b>4.3600e-003</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>	<b>0.0000</b>	<b>12.3532</b>	<b>12.3532</b>	<b>3.9200e-003</b>	<b>0.0000</b>	<b>12.4511</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.6 Paving - 2021**

**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	7.5000e-004	0.0254	6.3000e-003	7.0000e-005	1.6500e-003	5.0000e-005	1.7100e-003	4.8000e-004	5.0000e-005	5.3000e-004	0.0000	6.4089	6.4089	4.1000e-004	0.0000	6.4190
Worker	5.7000e-004	4.2000e-004	4.7600e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3045	1.3045	3.0000e-005	0.0000	1.3054
<b>Total</b>	<b>1.3200e-003</b>	<b>0.0258</b>	<b>0.0111</b>	<b>8.0000e-005</b>	<b>3.1500e-003</b>	<b>6.0000e-005</b>	<b>3.2200e-003</b>	<b>8.8000e-004</b>	<b>6.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>7.7133</b>	<b>7.7133</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>7.7243</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	8.1300e-003	0.0813	0.0930	1.4000e-004		4.3600e-003	4.3600e-003		4.0200e-003	4.0200e-003	0.0000	12.3532	12.3532	3.9200e-003	0.0000	12.4511
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>8.1300e-003</b>	<b>0.0813</b>	<b>0.0930</b>	<b>1.4000e-004</b>		<b>4.3600e-003</b>	<b>4.3600e-003</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>	<b>0.0000</b>	<b>12.3532</b>	<b>12.3532</b>	<b>3.9200e-003</b>	<b>0.0000</b>	<b>12.4511</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**3.6 Paving - 2021**

**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	7.5000e-004	0.0254	6.3000e-003	7.0000e-005	1.6500e-003	5.0000e-005	1.7100e-003	4.8000e-004	5.0000e-005	5.3000e-004	0.0000	6.4089	6.4089	4.1000e-004	0.0000	6.4190
Worker	5.7000e-004	4.2000e-004	4.7600e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3045	1.3045	3.0000e-005	0.0000	1.3054
<b>Total</b>	<b>1.3200e-003</b>	<b>0.0258</b>	<b>0.0111</b>	<b>8.0000e-005</b>	<b>3.1500e-003</b>	<b>6.0000e-005</b>	<b>3.2200e-003</b>	<b>8.8000e-004</b>	<b>6.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>7.7133</b>	<b>7.7133</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>7.7243</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Olympic and Hill Proposed Project - 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
Category	tons/yr										MT/yr					
Mitigated	1.0085	5.8280	14.2575	0.0555	4.6818	0.0438	4.7255	1.2546	0.0409	1.2954	0.0000	5,125.441 2	5,125.441 2	0.2403	0.0000	5,131.449 7
Unmitigated	1.0085	5.8280	14.2575	0.0555	4.6818	0.0438	4.7255	1.2546	0.0409	1.2954	0.0000	5,125.441 2	5,125.441 2	0.2403	0.0000	5,131.449 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	2,852.00	2,870.00	2107.00	10,577,827	10,577,827
Enclosed Parking with Elevator	0.00	0.00	0.00		
Quality Restaurant	453.00	475.28	363.44	1,468,519	1,468,519
Strip Mall	87.00	82.46	40.11	274,750	274,750
<b>Total</b>	<b>3,392.00</b>	<b>3,427.74</b>	<b>2,510.55</b>	<b>12,321,095</b>	<b>12,321,095</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
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	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
Enclosed Parking with Elevator	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
Quality Restaurant	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
Strip Mall	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**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,196.6674	3,196.6674	0.0755	0.0156	3,203.2097
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,196.6674	3,196.6674	0.0755	0.0156	3,203.2097
NaturalGas Mitigated	0.0448	0.3884	0.2030	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.4222	443.4222	8.5000e-003	8.1300e-003	446.0572
NaturalGas Unmitigated	0.0448	0.3884	0.2030	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.4222	443.4222	8.5000e-003	8.1300e-003	446.0572

Olympic and Hill Proposed Project - 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					
Apartments High Rise	6.45186e+006	0.0348	0.2973	0.1265	1.9000e-003		0.0240	0.0240		0.0240	0.0240	0.0000	344.2957	344.2957	6.6000e-003	6.3100e-003	346.3417
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	0.0000
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Strip Mall	11480	6.0000e-005	5.6000e-004	4.7000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6126	0.6126	1.0000e-005	1.0000e-005	0.6163
<b>Total</b>		<b>0.0448</b>	<b>0.3883</b>	<b>0.2030</b>	<b>2.4400e-003</b>		<b>0.0310</b>	<b>0.0310</b>		<b>0.0310</b>	<b>0.0310</b>	<b>0.0000</b>	<b>443.4222</b>	<b>443.4222</b>	<b>8.5000e-003</b>	<b>8.1300e-003</b>	<b>446.0572</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	6.45186e+006	0.0348	0.2973	0.1265	1.9000e-003		0.0240	0.0240		0.0240	0.0240	0.0000	344.2957	344.2957	6.6000e-003	6.3100e-003	346.3417
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	0.0000
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Strip Mall	11480	6.0000e-005	5.6000e-004	4.7000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6126	0.6126	1.0000e-005	1.0000e-005	0.6163
<b>Total</b>		<b>0.0448</b>	<b>0.3883</b>	<b>0.2030</b>	<b>2.4400e-003</b>		<b>0.0310</b>	<b>0.0310</b>		<b>0.0310</b>	<b>0.0310</b>	<b>0.0000</b>	<b>443.4222</b>	<b>443.4222</b>	<b>8.5000e-003</b>	<b>8.1300e-003</b>	<b>446.0572</b>

Olympic and Hill Proposed Project - 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			
Apartments High Rise	2.77206e+006	1,543.9286	0.0365	7.5400e-003	1,547.0884
Enclosed Parking with Elevator	2.5198e+006	1,403.4317	0.0332	6.8600e-003	1,406.3039
Quality Restaurant	353120	196.6743	4.6500e-003	9.6000e-004	197.0768
Strip Mall	94500	52.6329	1.2400e-003	2.6000e-004	52.7406
<b>Total</b>		<b>3,196.6674</b>	<b>0.0755</b>	<b>0.0156</b>	<b>3,203.2097</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	2.77206e+006	1,543.9286	0.0365	7.5400e-003	1,547.0884
Enclosed Parking with Elevator	2.5198e+006	1,403.4317	0.0332	6.8600e-003	1,406.3039
Quality Restaurant	353120	196.6743	4.6500e-003	9.6000e-004	197.0768
Strip Mall	94500	52.6329	1.2400e-003	2.6000e-004	52.7406
<b>Total</b>		<b>3,196.6674</b>	<b>0.0755</b>	<b>0.0156</b>	<b>3,203.2097</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

Olympic and Hill Proposed Project - 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
Category	tons/yr										MT/yr					
Mitigated	2.8562	0.2286	7.3023	1.3100e-003		0.0517	0.0517		0.0517	0.0517	0.0000	179.9149	179.9149	0.0147	3.0800e-003	181.2000
Unmitigated	2.8562	0.2286	7.3023	1.3100e-003		0.0517	0.0517		0.0517	0.0517	0.0000	179.9149	179.9149	0.0147	3.0800e-003	181.2000

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	0.2141					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0170	0.1452	0.0618	9.3000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	168.0960	168.0960	3.2200e-003	3.0800e-003	169.0949
Landscaping	0.2196	0.0835	7.2406	3.8000e-004		0.0400	0.0400		0.0400	0.0400	0.0000	11.8189	11.8189	0.0115	0.0000	12.1051
<b>Total</b>	<b>2.8562</b>	<b>0.2286</b>	<b>7.3023</b>	<b>1.3100e-003</b>		<b>0.0517</b>	<b>0.0517</b>		<b>0.0517</b>	<b>0.0517</b>	<b>0.0000</b>	<b>179.9149</b>	<b>179.9149</b>	<b>0.0147</b>	<b>3.0800e-003</b>	<b>181.2000</b>

Olympic and Hill Proposed Project - 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	0.2141					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0170	0.1452	0.0618	9.3000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	168.0960	168.0960	3.2200e-003	3.0800e-003	169.0949
Landscaping	0.2196	0.0835	7.2406	3.8000e-004		0.0400	0.0400		0.0400	0.0400	0.0000	11.8189	11.8189	0.0115	0.0000	12.1051
<b>Total</b>	<b>2.8562</b>	<b>0.2286</b>	<b>7.3023</b>	<b>1.3100e-003</b>		<b>0.0517</b>	<b>0.0517</b>		<b>0.0517</b>	<b>0.0517</b>	<b>0.0000</b>	<b>179.9149</b>	<b>179.9149</b>	<b>0.0147</b>	<b>3.0800e-003</b>	<b>181.2000</b>

**7.0 Water Detail**

**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

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	463.8369	1.2764	0.0321	505.3102
Unmitigated	548.3747	1.5947	0.0400	600.1519

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	45.6078 / 28.7528	523.1436	1.4982	0.0376	571.7950
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.42827 / 0.154996	19.3398	0.0796	1.9600e-003	21.9127
Strip Mall	0.518508 / 0.317795	5.8913	0.0170	4.3000e-004	6.4443
<b>Total</b>		<b>548.3747</b>	<b>1.5947</b>	<b>0.0400</b>	<b>600.1519</b>

Olympic and Hill Proposed Project - 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			
Apartments High Rise	36.4863 / 26.9988	443.2454	1.1991	0.0302	482.2172
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.94262 / 0.145541	15.6051	0.0637	1.5700e-003	17.6637
Strip Mall	0.414806 / 0.29841	4.9864	0.0136	3.4000e-004	5.4293
<b>Total</b>		<b>463.8369</b>	<b>1.2764</b>	<b>0.0321</b>	<b>505.3102</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	34.1685	2.0193	0.0000	84.6509
Unmitigated	68.3369	4.0386	0.0000	169.3018

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	322	65.3631	3.8629	0.0000	161.9343
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Strip Mall	7.35	1.4920	0.0882	0.0000	3.6963
<b>Total</b>		<b>68.3369</b>	<b>4.0386</b>	<b>0.0000</b>	<b>169.3018</b>

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	161	32.6816	1.9314	0.0000	80.9671
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.65	0.7409	0.0438	0.0000	1.8356
Strip Mall	3.675	0.7460	0.0441	0.0000	1.8482
<b>Total</b>		<b>34.1685</b>	<b>2.0193</b>	<b>0.0000</b>	<b>84.6509</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Olympic and Hill Proposed Project - South Coast AQMD Air District, Annual

Equipment Type	Number
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### 11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	123.9000	0.0000	0.0000	123.9000

### 11.2 Net New Trees

#### Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	175	123.9000	0.0000	0.0000	123.9000
<b>Total</b>		<b>123.9000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>123.9000</b>