

## **Revised Appendix D.3**

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Air Quality Worksheets and Modeling  
Output Files

AQ SUMMARY OF EMISSIONS (Updated for Final EIR)

Operation Emissions (With Project Design Features)								Operation Emissions (No Project Design Features)																		
Baseline	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		Baseline	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>												
Area	13	0	0	0	0	0	0	Area	13	0	0	0	0	0	0											
Energy	0	0	0	0	0	0	0	Energy	0	0	0	0	0	0	0											
Mobile	54	174	450	1	54	15		Mobile	54	174	450	1	54	15												
Emergency Generator	1	2	2	0	0	0		Emergency Generator	1	2	2	0	0	0												
<b>Total</b>	<b>68</b>	<b>176</b>	<b>452</b>	<b>1</b>	<b>54</b>	<b>16</b>		<b>Total</b>	<b>68</b>	<b>176</b>	<b>452</b>	<b>1</b>	<b>54</b>	<b>16</b>												
Baseline (Buildout)								Baseline (Buildout)																		
Area	13	0	0	0	0	0		Area	13	0	0	0	0	0												
Energy	0	0	0	0	0	0		Energy	0	0	0	0	0	0												
Mobile	17	102	140	1	53	14		Mobile	17	102	140	1	53	14												
Emergency Generator	1	2	2	0	0	0		Emergency Generator	1	2	2	0	0	0												
<b>Total</b>	<b>31</b>	<b>104</b>	<b>142</b>	<b>1</b>	<b>53</b>	<b>15</b>		<b>Total</b>	<b>31</b>	<b>104</b>	<b>142</b>	<b>1</b>	<b>53</b>	<b>15</b>												
Buildout								Summary of Buildout Emissions (No Project Design Features)																		
Area	77	4	120	0	1	1		Area	79	23	129	0	2	2												
Energy	1	10	7	0	1	1		Energy	1	13	9	0	1	1												
Mobile	28	166	218	1	79	21		Mobile	40	221	463	2	236	64												
Emergency Generator	1	4	20	0	0	0		Emergency Generator	1	4	20	0	0	0												
<b>Total</b>	<b>107</b>	<b>184</b>	<b>365</b>	<b>1</b>	<b>80</b>	<b>23</b>		<b>Total</b>	<b>121.2</b>	<b>259.9</b>	<b>620.5</b>	<b>2.5</b>	<b>239.2</b>	<b>67.4</b>												
Project (Buildout Less Baseline)								Project (Buildout Less Baseline (No Project Design Features))								Comparison of Project versus Project (No Project Design Features)										
Area	64	4	119	0	1	1		Area	66	23	129	0	2	2		ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>					
Energy	1	10	6	0	1	1		Energy	1	13	8	0	1	1												
Mobile	-26	-8	-231	0	25	6		Mobile	-14	48	13	1	182	49		Total	-26%	-91%	-152%	-90%	-86%	-85%				
Emergency Generator	0	1	18	0	0	0		Emergency Generator	0	1	18	0	0	0												
<b>Total</b>	<b>40</b>	<b>7</b>	<b>-87</b>	<b>0</b>	<b>26</b>	<b>8</b>		<b>Total</b>	<b>53</b>	<b>83</b>	<b>168</b>	<b>2</b>	<b>185</b>	<b>52</b>												
<b>Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>		<b>Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>												
<b>Difference</b>	<b>15</b>	<b>48</b>	<b>637</b>	<b>150</b>	<b>124</b>	<b>47</b>		<b>Difference</b>	<b>2</b>	<b>(28)</b>	<b>382</b>	<b>148</b>	<b>(35)</b>	<b>3</b>												
<b>Impact</b>	No	No	No	No	No	No		<b>Impact</b>	No	Yes	No	No	Yes	No												
Onsite Total		15	144		2	1.6		Onsite Total		37	156		3	3.4		Total					-60%	-7%				
<b>Threshold</b>		<b>114</b>	<b>1537</b>		<b>9.0</b>	<b>2.0</b>		<b>Threshold</b>		<b>114</b>	<b>1537</b>		<b>9</b>	<b>2</b>												
<b>Difference</b>		<b>99</b>	<b>1393</b>		<b>7</b>	<b>0</b>		<b>Difference</b>		<b>77</b>	<b>1381</b>		<b>6</b>	<b>-1</b>												
<b>Impact</b>	No	No	No	No	No	No		<b>Impact</b>	No	No	No	No	Yes	No												
Project (Buildout Less Baseline (Buildout))								Project (Buildout Less Baseline (Buildout) (No Project Design Features))								Comparison of Project versus Project (No Project Design Features)										
Area	64	3.9	119	0	1	1		Area	66	23	129	0	2	2		ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>					
Energy	1	9.5	6	0	1	1		Energy	1	13	8	0	1	1												
Mobile	11	64.6	79	0	26	7		Mobile	22	120	323	2	183	50		Total	-15%	-49%	-53%	-79%	-85%	-84%				
Emergency Generator	0	1.5	18	0	0	0		Emergency Generator	0	1	18	0	0	0												
<b>Total</b>	<b>76</b>	<b>79.4</b>	<b>223</b>	<b>0</b>	<b>27</b>	<b>9</b>		<b>Total</b>	<b>90</b>	<b>156</b>	<b>478</b>	<b>2</b>	<b>186</b>	<b>53</b>												
<b>Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>		<b>Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>												
<b>Difference</b>	<b>(21)</b>	<b>(24)</b>	<b>327</b>	<b>150</b>	<b>123</b>	<b>46</b>		<b>Difference</b>	<b>(35)</b>	<b>(101)</b>	<b>72</b>	<b>148</b>	<b>(36)</b>	<b>2</b>												
<b>Impact</b>	Yes	Yes	No	No	No	No		<b>Impact</b>	Yes	Yes	No	No	No	No												
Onsite Total		15	144		2	1.6		Onsite Total		37	156		3	3.4		Total					-60%	-7%				
<b>Threshold</b>		<b>114</b>	<b>1537</b>		<b>9</b>	<b>2</b>		<b>Threshold</b>		<b>114</b>	<b>1537</b>		<b>9</b>	<b>2</b>												
<b>Difference</b>		<b>99</b>	<b>1393</b>		<b>7</b>	<b>0</b>		<b>Difference</b>		<b>77</b>	<b>1381</b>		<b>6</b>	<b>-1</b>												
<b>Impact</b>	No	No	No	No	No	No		<b>Impact</b>	No	No	No	No	Yes	No												
Project Emissions (Concurrent Construction and Operations-Interim Year 2031)								Project Emissions (Concurrent Construction and Operations-Interim Year 2031) No Project Design Features																		
Operations	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		Operations	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>												
Area	50	3	89	0	1	1		Area	50	3	89	0	1	1												
Energy	1	6	4	0	0	0		Energy	1	7	5	0	1	1												
Mobile	23	123	176	1	60	16		Mobile	23	123	176	1	60	16												
Emergency Generator	1	4	20	0	0	0		Emergency Generator	1	4	20	0	0	0												
<b>Subtotal (Operations)</b>	<b>75</b>	<b>136</b>	<b>289</b>	<b>1</b>	<b>61</b>	<b>18</b>		<b>Subtotal (Operations)</b>	<b>75</b>	<b>137</b>	<b>290</b>	<b>1</b>	<b>61</b>	<b>18</b>												
Construction								Construction																		
2031	5	80	125	1	20	7		2031	12	107	92	1	33	12												
<b>Total</b>	<b>80</b>	<b>216</b>	<b>414</b>	<b>1</b>	<b>81</b>	<b>24</b>		<b>Total</b>	<b>87</b>	<b>244</b>	<b>382</b>	<b>1</b>	<b>94</b>	<b>30</b>												
<b>Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>		<b>Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>												
<b>Difference</b>	<b>(25)</b>	<b>-161</b>	<b>136</b>	<b>149</b>	<b>69</b>	<b>31</b>		<b>Difference</b>	<b>(32)</b>	<b>-189</b>	<b>168</b>	<b>149</b>	<b>56</b>	<b>25</b>												
<b>Onsite Total</b>		<b>33</b>	<b>204</b>		<b>11</b>	<b>4</b>		<b>Onsite Total</b>		<b>60</b>	<b>171</b>		<b>38</b>	<b>11</b>												
<b>Threshold</b>		<b>114</b>	<b>1537</b>		<b>35</b>	<b>8</b>		<b>Threshold</b>		<b>114</b>	<b>1537</b>		<b>35</b>	<b>8</b>												
<b>Difference</b>		<b>81</b>	<b>1333</b>		<b>24</b>	<b>4</b>		<b>Difference</b>		<b>54</b>	<b>1366</b>		<b>-3</b>	<b>-3</b>												

Promenade Operations-Buildout - Los Angeles-South Coast County, Winter

**Promenade Operations-Buildout (For Final EIR)**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	629.00	1000sqft	14.44	629,000.00	0
Enclosed Parking with Elevator	2,380.00	Space	21.42	952,000.00	0
Unenclosed Parking with Elevator	3,360.00	Space	30.24	1,344,000.00	0
Hotel	572.00	Room	19.07	469,000.00	0
Arena	320.00	1000sqft	102.86	320,000.00	0
Apartments High Rise	1,432.00	Dwelling Unit	23.10	1,609,000.00	4530
Strip Mall	236.50	1000sqft	5.43	236,500.00	0
Supermarket	7.50	1000sqft	0.17	7,500.00	0

**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>	8			<b>Operational Year</b>	2033
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	525	<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**

- Project Characteristics - Carbon Intensity Factor for RPS of 50 Percent (SB 350)
- Land Use - Site Specific
- Construction Phase - Site Specific
- Off-road Equipment -
- Off-road Equipment - Site Specific (Included in Building Construction)
- Trips and VMT - Site Specific
- On-road Fugitive Dust - Site Specific
- Demolition -
- Grading -
- Architectural Coating -
- Vehicle Trips - Traffic Study Specific
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Woodstoves - Consistency with SCAQMD Rules (Limited to amenity and roof top fire pits ("villa" units on top of the garages and PH units on the towers)
- Area Coating -
- Energy Use - Compliance with 2016 Title 24 Standards
- Water And Wastewater - Table IV.L.1-4 of the Draft EIR
- Solid Waste - Table IV.L.3-5 of the Draft EIR
- Construction Off-road Equipment Mitigation - SP
- Mobile Land Use Mitigation -
- Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation - WC 2035 Plan Requirement

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF - SCAQMD BACT Requirements

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	1.75	2.33
tblEnergyUse	T24E	3.92	0.42
tblFireplaces	NumberGas	1,217.20	150.00
tblFireplaces	NumberNoFireplace	143.20	1,282.00
tblFireplaces	NumberWood	71.60	0.00
tblLandUse	LandUseSquareFeet	830,544.00	469,000.00
tblLandUse	LandUseSquareFeet	1,432,000.00	1,609,000.00
tblLandUse	Population	4,096.00	4,530.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	525
tblSolidWaste	SolidWasteGenerationRate	658.72	0.00
tblSolidWaste	SolidWasteGenerationRate	584.97	8,092.00
tblSolidWaste	SolidWasteGenerationRate	313.17	0.00
tblSolidWaste	SolidWasteGenerationRate	8.81	0.00
tblSolidWaste	SolidWasteGenerationRate	248.33	0.00
tblSolidWaste	SolidWasteGenerationRate	42.30	0.00
tblStationaryGeneratorsPumpsEF	NOX_EF	2.85	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	3.1000e-004
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	3.1000e-004
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	3.1000e-004
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	4,020.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	5,360.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	670.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.33
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.33
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	ST_TR	4.98	6.01
tblVehicleTrips	ST_TR	2.46	2.19
tblVehicleTrips	ST_TR	8.19	7.94
tblVehicleTrips	ST_TR	10.71	40.78
tblVehicleTrips	ST_TR	42.04	48.47

tblVehicleTrips	ST_TR	177.59	48.47
tblVehicleTrips	SU_TR	3.65	4.40
tblVehicleTrips	SU_TR	1.05	0.91
tblVehicleTrips	SU_TR	5.95	5.77
tblVehicleTrips	SU_TR	10.71	40.78
tblVehicleTrips	SU_TR	20.43	23.56
tblVehicleTrips	SU_TR	166.44	23.56
tblVehicleTrips	WD_TR	4.20	5.46
tblVehicleTrips	WD_TR	11.03	9.82
tblVehicleTrips	WD_TR	8.17	7.92
tblVehicleTrips	WD_TR	10.71	40.78
tblVehicleTrips	WD_TR	44.32	42.99
tblVehicleTrips	WD_TR	102.24	42.99
tblWater	IndoorWaterUseRate	93,300,564.69	0.00
tblWater	IndoorWaterUseRate	111,794,527.49	137,315,190.00
tblWater	IndoorWaterUseRate	14,509,792.44	0.00
tblWater	IndoorWaterUseRate	137,846,437.63	0.00
tblWater	IndoorWaterUseRate	17,518,151.33	0.00
tblWater	IndoorWaterUseRate	924,511.61	0.00
tblWater	OutdoorWaterUseRate	58,819,921.22	0.00
tblWater	OutdoorWaterUseRate	68,519,226.52	77,640,975.00
tblWater	OutdoorWaterUseRate	1,612,199.16	0.00
tblWater	OutdoorWaterUseRate	8,798,708.78	0.00
tblWater	OutdoorWaterUseRate	10,736,931.46	0.00
tblWater	OutdoorWaterUseRate	28,593.14	0.00
tblWoodstoves	NumberCatalytic	71.60	0.00
tblWoodstoves	NumberNoncatalytic	71.60	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	76.6186	3.8535	119.6509	0.0222		0.8591	0.8591		0.8591	0.8591						3,414.8889
Energy	1.3441	11.9553	8.3300	0.0733		0.9287	0.9287		0.9287	0.9287						14,750.0053
Mobile	39.7987	221.5547	463.6565	2.2291	235.1330	1.2859	236.4189	62.8989	1.1945	64.0934						229,131.0366
Stationary	1.1008	3.9142	20.3536	0.0384		0.1566	0.1566		0.1566	0.1566						4,097.8775
<b>Total</b>	<b>118.8623</b>	<b>241.2776</b>	<b>611.9910</b>	<b>2.3630</b>	<b>235.1330</b>	<b>3.2302</b>	<b>238.3632</b>	<b>62.8989</b>	<b>3.1388</b>	<b>66.0377</b>						<b>251,393.8083</b>

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day						
Area	76.6186	3.8535	119.6509	0.0222		0.8591	0.8591		0.8591	0.8591							3,414.8889
Energy	1.1055	9.8199	6.7578	0.0603		0.7638	0.7638		0.7638	0.7638							12,131.1243
Mobile	28.3625	166.1644	218.4314	0.8561	78.1817	0.5364	78.7181	20.9139	0.4977	21.4116							88,408.0660
Stationary	1.1008	3.9142	20.3536	0.0384		0.1566	0.1566		0.1566	0.1566							4,097.8775
<b>Total</b>	<b>107.1874</b>	<b>183.7519</b>	<b>365.1936</b>	<b>0.9769</b>	<b>78.1817</b>	<b>2.3158</b>	<b>80.4975</b>	<b>20.9139</b>	<b>2.2770</b>	<b>23.1909</b>							<b>108,051.9567</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	9.82	23.84	40.33	58.66	66.75	28.31	66.23	66.75	27.45	64.88	0.00	0.00	0.00	0.00	0.00	57.02

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	28.3625	166.1644	218.4314	0.8561	78.1817	0.5364	78.7181	20.9139	0.4977	21.4116							88,408.0660
Unmitigated	39.7987	221.5547	463.6565	2.2291	235.1330	1.2859	236.4189	62.8989	1.1945	64.0934							229,131.0366

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments High Rise	7,818.72	8,606.32	6300.80	26,361,238	8,765,112
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	6,176.78	1,377.51	572.39	15,110,401	5,024,208
Hotel	4,530.24	4,541.68	3300.44	10,394,611	3,456,208
Arena	13,049.60	13,049.60	13,049.60	28,167,585	9,365,722
Strip Mall	10,167.14	11,463.16	5571.94	18,447,229	6,133,704
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Supermarket	322.43	363.53	176.70	405,709	134,898
<b>Total</b>	<b>42,064.90</b>	<b>39,401.79</b>	<b>28,971.87</b>	<b>98,886,773</b>	<b>32,879,852</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-	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	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.540767	0.043825	0.210979	0.115876	0.013474	0.006417	0.021769	0.035705	0.002676	0.001662	0.005313	0.000728	0.000807
Enclosed Parking with Elevator	0.540767	0.043825	0.210979	0.115876	0.013474	0.006417	0.021769	0.035705	0.002676	0.001662	0.005313	0.000728	0.000807
General Office Building	0.540767	0.043825	0.210979	0.115876	0.013474	0.006417	0.021769	0.035705	0.002676	0.001662	0.005313	0.000728	0.000807
Hotel	0.540767	0.043825	0.210979	0.115876	0.013474	0.006417	0.021769	0.035705	0.002676	0.001662	0.005313	0.000728	0.000807
Arena	0.540767	0.043825	0.210979	0.115876	0.013474	0.006417	0.021769	0.035705	0.002676	0.001662	0.005313	0.000728	0.000807
Strip Mall	0.540767	0.043825	0.210979	0.115876	0.013474	0.006417	0.021769	0.035705	0.002676	0.001662	0.005313	0.000728	0.000807
Unenclosed Parking with Elevator	0.540767	0.043825	0.210979	0.115876	0.013474	0.006417	0.021769	0.035705	0.002676	0.001662	0.005313	0.000728	0.000807
Supermarket	0.540767	0.043825	0.210979	0.115876	0.013474	0.006417	0.021769	0.035705	0.002676	0.001662	0.005313	0.000728	0.000807

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.1055	9.8199	6.7578	0.0603		0.7638	0.7638		0.7638	0.7638						12,131.1243
NaturalGas Unmitigated	1.3441	11.9553	8.3300	0.0733		0.9287	0.9287		0.9287	0.9287						14,750.0053

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	44833.2	0.4835	4.1317	1.7582	0.0284		0.3341	0.3341		0.3341	0.3341						5,305.8393
Arena	18323.3	0.1976	1.7964	1.5090	0.0108		0.1365	0.1365		0.1365	0.1365						2,168.4910
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
General Office Building	15750.8	0.1699	1.5442	1.2971	9.2700e-003		0.1174	0.1174		0.1174	0.1174						1,864.0528
Hotel	44008.9	0.4746	4.3146	3.6243	0.0259		0.3279	0.3279		0.3279	0.3279						5,208.2855
Strip Mall	1295.89	0.0140	0.1271	0.1067	7.6000e-004		9.6600e-003	9.6600e-003		9.6600e-003	9.6600e-003						153.3637
Supermarket	422.26	4.5500e-003	0.0414	0.0348	2.5000e-004		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003						49.9729
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>1.3441</b>	<b>11.9553</b>	<b>8.3300</b>	<b>0.0733</b>		<b>0.9287</b>	<b>0.9287</b>		<b>0.9287</b>	<b>0.9287</b>						<b>14,750.0053</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	39.0351	0.4210	3.5974	1.5308	0.0230		0.2909	0.2909		0.2909	0.2909						4,619.6576
Arena	15.246	0.1644	1.4947	1.2556	8.9700e-003		0.1136	0.1136		0.1136	0.1136						1,804.3091
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
General Office Building	12.0501	0.1300	1.1814	0.9924	7.0900e-003		0.0898	0.0898		0.0898	0.0898						1,426.0820
Hotel	34.661	0.3738	3.3981	2.8544	0.0204		0.2583	0.2583		0.2583	0.2583						4,102.0001
Strip Mall	1.142	0.0123	0.1120	0.0941	6.7000e-004		8.5100e-003	8.5100e-003		8.5100e-003	8.5100e-003						135.1517
Supermarket	0.371147	4.0000e-003	0.0364	0.0306	2.2000e-004		2.7700e-003	2.7700e-003		2.7700e-003	2.7700e-003						43.9239
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>1.1055</b>	<b>9.8199</b>	<b>6.7578</b>	<b>0.0603</b>		<b>0.7638</b>	<b>0.7638</b>		<b>0.7638</b>	<b>0.7638</b>						<b>12,131.1243</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	lb/day										lb/day					
Mitigated	76.6186	3.8535	119.6509	0.0222		0.8591	0.8591		0.8591	0.8591						3,414.8889
Unmitigated	76.6186	3.8535	119.6509	0.0222		0.8591	0.8591		0.8591	0.8591						3,414.8889

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.1543					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	65.5790					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.2912	2.4882	1.0588	0.0159		0.2012	0.2012		0.2012	0.2012						3,195.3468
Landscaping	3.5941	1.3652	118.5920	6.3000e-003		0.6579	0.6579		0.6579	0.6579						219.5422
<b>Total</b>	<b>76.6186</b>	<b>3.8535</b>	<b>119.6508</b>	<b>0.0222</b>		<b>0.8591</b>	<b>0.8591</b>		<b>0.8591</b>	<b>0.8591</b>						<b>3,414.8889</b>





Total	1.1008	3.9142	20.3536	0.0384		0.1566	0.1566		0.1566	0.1566							4,097.877 5
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## 11.0 Vegetation

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Promenade Operations-Interim Year 2031 - Los Angeles-South Coast County, Winter

**Promenade Operations-Interim Year 2031**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	157.00	1000sqft	3.60	157,000.00	0
Enclosed Parking with Elevator	1,850.00	Space	16.65	740,000.00	0
Unenclosed Parking with Elevator	2,780.00	Space	25.02	1,112,000.00	0
Arena	320.00	1000sqft	102.86	320,000.00	0
Hotel	272.00	Room	9.07	209,000.00	0
Apartments High Rise	1,063.00	Dwelling Unit	17.15	1,234,000.00	3040
Strip Mall	191.00	1000sqft	4.38	191,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2031
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	525	<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**

- Project Characteristics - Carbon Intensity Factor for RPS of 50 Percent (SB 350)
- Land Use - Site Specific
- Construction Phase - Site Specific
- Off-road Equipment -
- Off-road Equipment - Site Specific (Included in Building Construction)
- Trips and VMT - Site Specific
- On-road Fugitive Dust - Site Specific
- Demolition -
- Grading -
- Architectural Coating -
- Vehicle Trips - Traffic Study Specific
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Woodstoves - Consistency with SCAQMD Rules (Limited to amenity and roof top fire pits ("villa" units on top of the garages and PH units on the towers)
- Area Coating - s
- Energy Use - Compliance with 2016 Title 24 Standards
- Water And Wastewater -
- Solid Waste -
- Construction Off-road Equipment Mitigation - SP
- Mobile Land Use Mitigation -
- Area Mitigation -
- Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF - SCAQMD BACT Requirements

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	1.75	2.33
tblEnergyUse	T24E	3.92	0.42
tblFireplaces	NumberGas	903.55	115.00
tblFireplaces	NumberNoFireplace	106.30	0.00
tblFireplaces	NumberWood	53.15	0.00
tblLandUse	LandUseSquareFeet	394,944.00	209,000.00
tblLandUse	LandUseSquareFeet	1,063,000.00	1,234,000.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	525
tblStationaryGeneratorsPumpsEF	NOX_EF	2.85	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	3.1000e-004
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	3.1000e-004
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	3.1000e-004
tblVehicleTrips	ST_TR	4.98	6.01
tblVehicleTrips	ST_TR	10.71	40.78
tblVehicleTrips	ST_TR	2.46	2.19
tblVehicleTrips	ST_TR	8.19	7.94
tblVehicleTrips	ST_TR	42.04	48.47
tblVehicleTrips	SU_TR	3.65	4.40
tblVehicleTrips	SU_TR	10.71	40.78
tblVehicleTrips	SU_TR	1.05	0.91
tblVehicleTrips	SU_TR	5.95	5.77
tblVehicleTrips	SU_TR	20.43	23.56
tblVehicleTrips	WD_TR	4.20	5.46
tblVehicleTrips	WD_TR	10.71	40.78
tblVehicleTrips	WD_TR	11.03	9.82
tblVehicleTrips	WD_TR	8.17	7.92
tblVehicleTrips	WD_TR	44.32	42.99
tblWoodstoves	NumberCatalytic	53.15	0.00
tblWoodstoves	NumberNoncatalytic	53.15	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational





## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	33280.5	0.3589	3.0670	1.3051	0.0196		0.2480	0.2480		0.2480	0.2480						3,938.6224
Arena	18323.3	0.1976	1.7964	1.5090	0.0108		0.1365	0.1365		0.1365	0.1365						2,168.4910
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
General Office Building	3931.45	0.0424	0.3854	0.3238	2.3100e-003		0.0293	0.0293		0.0293	0.0293						465.2723
Hotel	19611.6	0.2115	1.9227	1.6151	0.0115		0.1461	0.1461		0.1461	0.1461						2,320.9631
Strip Mall	1046.58	0.0113	0.1026	0.0862	6.2000e-004		7.8000e-003	7.8000e-003		7.8000e-003	7.8000e-003						123.8582
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.8217</b>	<b>7.2742</b>	<b>4.8391</b>	<b>0.0448</b>		<b>0.5677</b>	<b>0.5677</b>		<b>0.5677</b>	<b>0.5677</b>						<b>9,017.2070</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	28.9765	0.3125	2.6704	1.1363	0.0170		0.2159	0.2159		0.2159	0.2159						3,429.2570
Arena	15.246	0.1644	1.4947	1.2556	8.9700e-003		0.1136	0.1136		0.1136	0.1136						1,804.3091
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
General Office Building	3.00773	0.0324	0.2849	0.2477	1.7700e-003		0.0224	0.0224		0.0224	0.0224						355.9537
Hotel	15.446	0.1666	1.5143	1.2720	9.0900e-003		0.1151	0.1151		0.1151	0.1151						1,827.9702
Strip Mall	0.922295	9.9500e-003	0.0904	0.0760	5.4000e-004		6.8700e-003	6.8700e-003		6.8700e-003	6.8700e-003						109.1500
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.6859</b>	<b>6.0647</b>	<b>3.9876</b>	<b>0.0374</b>		<b>0.4739</b>	<b>0.4739</b>		<b>0.4739</b>	<b>0.4739</b>						<b>7,526.6400</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	lb/day										lb/day					
Mitigated	49.8289	2.9211	88.8447	0.0169		0.6426	0.6426		0.6426	0.6426						2,612.7358

Unmitigated	49.8289	2.9211	88.8447	0.0169		0.6426	0.6426		0.6426	0.6426							2,612.7358
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## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	4.4839					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	42.4538					0.0000	0.0000		0.0000	0.0000							0.0000
Hearth	0.2232	1.9077	0.8118	0.0122		0.1542	0.1542		0.1542	0.1542							2,449.7659
Landscaping	2.6680	1.0134	88.0329	4.6700e-003		0.4884	0.4884		0.4884	0.4884							162.9699
<b>Total</b>	<b>49.8289</b>	<b>2.9211</b>	<b>88.8447</b>	<b>0.0169</b>		<b>0.6426</b>	<b>0.6426</b>		<b>0.6426</b>	<b>0.6426</b>							<b>2,612.7358</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	4.4839					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	42.4538					0.0000	0.0000		0.0000	0.0000							0.0000
Hearth	0.2232	1.9077	0.8118	0.0122		0.1542	0.1542		0.1542	0.1542							2,449.7659
Landscaping	2.6680	1.0134	88.0329	4.6700e-003		0.4884	0.4884		0.4884	0.4884							162.9699
<b>Total</b>	<b>49.8289</b>	<b>2.9211</b>	<b>88.8447</b>	<b>0.0169</b>		<b>0.6426</b>	<b>0.6426</b>		<b>0.6426</b>	<b>0.6426</b>							<b>2,612.7358</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 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
Emergency Generator	3	0	12	670	0.73	Diesel



Emergency Generator	1	0.33	12	4020	0.73	Diesel
Emergency Generator	2	0.33	12	5360	0.73	Diesel

**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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**10.1 Stationary Sources**

**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (600 - 750 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Emergency Generator - Diesel (750 - 999 HP)	1.1008	3.9142	20.3536	0.0384		0.1566	0.1566		0.1566	0.1566						4,097.8775
<b>Total</b>	<b>1.1008</b>	<b>3.9142</b>	<b>20.3536</b>	<b>0.0384</b>		<b>0.1566</b>	<b>0.1566</b>		<b>0.1566</b>	<b>0.1566</b>						<b>4,097.8775</b>

**11.0 Vegetation**

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