

# **LAX Terminals 2 and 3 Modernization Project**

## **Draft EIR**

### **Appendix B.2**

**B.2.1 Operations – Greenhouse Gas Emissions Comparison & Energy Analysis**

**B.2.2 Operations – CalEEMod Outputs**

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## Appendix B.2.1

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### Operations – Greenhouse Gas Emissions Comparison & Energy Analysis

- CalEEMod Default Analysis – Greenhouse Gas and Energy
- Detailed Analysis for Disclosure – Greenhouse Gas
- CalEEMod Default Analysis with Other Measures Applied – Greenhouse Gas
- Detailed Analysis for Disclosure with Other Measures Applied – Greenhouse Gas

# LAX T2/T3 Modernization Project, Draft EIR

## T2/T3 GHG Analysis

CalEEMod Default Analysis

		Energy-Related Operational GHG Emissions	
		2016 GHG Baseline, 2013 T24 (Mty)	LEED GHG Future, 2013 T24* (Mty)
<b>Total Construction CO2e</b>	Area	0.02	0.02
22,355.00 Metric Tons	Energy	6,300.53	10,852.10

## Amortized Construction CO2e

789.00 Metric Tons per Year for 30 Years

		GHG Increment		
<b>Total</b>		6,300.55	10,852.12	--> 5,340.57 Metric Tons per Year
				10,000 Metric Tons per Year GHG Incremental Threshold

*\*Not accounting for reductions in electrical GHGs due to LADWP increased renewable energy portfolio per 2015 Final ion*

## Utilities

	2016 GHG Baseline, 2013 T24	LEED GHG Future, 2013 T24*
Electricity Demand (KWhr/yr):	7,847,269	13,516,216
Natural Gas Demand (kBtu/yr):	26,775,981	46,119,222
Electricity from Water Demand (KWhr/yr):	2,829,414	3,205,420
Solid Waste Generation (tpy):	733	1,507

## CalEEMod2016.3.1 Defaults (From User Guide Appendix A):

Electricity Emissions (KWhr/yr)<sub>Non-Residential</sub> = Local Utility EF (lbs CO2e/MWh) \* Energy Intensity (KWhr/sq.ft.) \* Size)

Los Angeles Department of Water & Power 1,227.89 lbs CO2/MWh

Los Angeles Department of Water & Power 0.029 lbs CH4/MWh

Los Angeles Department of Water & Power 0.00617 lbs N2O/MWh

Los Angeles Department of Water & Power: 1230.45366 lbs CO2e/MWh

Elec. Energy Intensity for Non-Residential: 0.01363 KWhr/sq.ft.

Based on: <http://capabilities.itron.com/CeusWeb/Chart.aspx> used in CalEEMod

Natural Gas Emissions (kBtu/yr)<sub>Non-Residential</sub> = AP-42 EF (lbs CO2e/kBtu) \* Energy Intensity (kBtu/sq.ft.) \* Size)

AP-42 Natural Gas EF (lbs CO2e/kBtu): 0.11 lb CO2/kBtu

Based on: <https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s01.pdf> AP-42 used in CalEEMod

N.Gas Energy Intensity for Non-Residential: 46.5074682 kBtu/sq.ft.

Based on: <http://capabilities.itron.com/CeusWeb/Chart.aspx> used in CalEEMod

proposed Project Size 1,620,010.00 sq.ft.

Existing Size 788,018.00 sq.ft.

Outdoor Water Use Assumption: 28.75%

Based on: [http://pacinst.org/app/uploads/2013/02/appendix\\_e3.pdf](http://pacinst.org/app/uploads/2013/02/appendix_e3.pdf) used in CalEEMod (pg 2 pdf)

Solid Waste CO2e Emissions: 0.9 tons of waste / 1000 sq.ft. / year

# LAX T2/T3 Modernization Project, Draft EIR

## T2/T3 GHG Analysis Detailed Analysis (For Disclosure)

		Energy-Related Operational GHG Emissions	
		2016 GHG Baseline, 2001 T24* (Mty)	LEED GHG Future, 2016 T24** (Mty)
<b>Total Construction CO2e</b>	Area	0.02	0.02
22,355.00 Metric Tons	Energy	7,709.27	8,010.47

### Amortized Construction CO2e

789.00 Metric Tons per Year for 30 Years

		GHG Increment	
<b>Total</b>		7,709.29	8,010.49
		-->	1,090.21
			Metric Tons per Year

\*Energy reductions of 7.7% for electricity & 3.2% for natural gas from page 8 of PDF removed from calculations: [http://www.regie-energie.ca/audiences/3526-04/Documents/Audi3526/ASTROLab\\_3526\\_Engag-impactAnalysis\\_20mai04.pdf](http://www.regie-energie.ca/audiences/3526-04/Documents/Audi3526/ASTROLab_3526_Engag-impactAnalysis_20mai04.pdf)

\*\*Energy reductions of 4.6% for electricity & 0.05% for natural gas from page 3 of PDF: [http://www.energy.ca.gov/title24/2016standards/rulemaking/tbc-uments/15-day\\_language/Impact\\_analysis/2016\\_impact\\_Analysis\\_2015-06-](http://www.energy.ca.gov/title24/2016standards/rulemaking/tbc-uments/15-day_language/Impact_analysis/2016_impact_Analysis_2015-06-)

10,000 Metric Tons per Year GHG Incremental Threshold

### CalEEMod2016.3.1 Defaults (From User Guide Appendix A):

Electricity Emissions (KWhr/yr) <sup>Non-Residential</sup>	Local Utility EF (lbs CO2e/MWh) * Energy Intensity (KWhr/sq ft) * Size
Los Angeles Department of Water & Power	1,227.89 lbs CO2/MWh
Los Angeles Department of Water & Power	0.029 lbs CH4/MWh
Los Angeles Department of Water & Power	0.00617 lbs N2O/MWh
Los Angeles Department of Water & Power:	1230.45366 lbs CO2e/MWh
Elec Energy Intensity for Non-Residential:	0.01363 KWhr/sq ft
Based on <a href="http://capabilities.itron.com/CeasWeb/Chart.aspx">http://capabilities.itron.com/CeasWeb/Chart.aspx</a> used in CalEEMod	
Los Angeles Department of Water & Power:	851 lbs CO2e/MWh in 2023 based on 2015 Final IRP
Natural Gas Emissions (kBtu/yr) <sup>Non-Residential</sup>	AP-42 EF (lbs CO2e/kBtu) * Energy Intensity (kBtu/sq ft) * Size
AP-42 Natural Gas EF (lbs CO2e/kBtu):	0.11 lb CO2/kBtu
Based on <a href="https://www3.epa.gov/ttr/chieffap42/ch03/final/c03s01.pdf">https://www3.epa.gov/ttr/chieffap42/ch03/final/c03s01.pdf</a> AP-42 used in CalEEMod	
N Gas Energy Intensity for Non-Residential:	46.5074682 kBtu/sq ft
Based on <a href="http://capabilities.itron.com/CeasWeb/Chart.aspx">http://capabilities.itron.com/CeasWeb/Chart.aspx</a> used in CalEEMod	
proposed Project Size	1,620,010.00 sq ft
Existing Size	788,018.00 sq ft
Outdoor Water Use Assumption:	28.75%
Based on <a href="http://pacinst.org/app/uploads/2013/02/appendix_e3.pdf">http://pacinst.org/app/uploads/2013/02/appendix_e3.pdf</a> used in CalEEMod (pg 2.pdf)	
Solid Waste CO2e Emissions:	0.9 tons of waste / 1000 sq ft / year

### 2015 Power Integrated Resource Plan Emissions Data

Year	CO2/MWh
2000	1413
2001	1422
2002	1388
2003	1393
2004	1380
2005	1319
2006	1279
2007	1245
2008	1217
2009	1151
2010	1104
2011	1156
2012	1094
2013	1135
2014	1163
2015	1054
2016	1029
2017	1003
2018	978
2019	952
2020	927
2021	901
2022	876
2023	851

Extrapolated Data Start

# LAX T2/T3 Modernization Project, Draft EIR

## T2/T3 GHG Analysis

CalEEMod Default Analysis with Other Measures

		Energy-Related Operational GHG Emissions	
		2016 GHG Baseline, 2013 T24 (Mty)	LEED GHG Future, 2013 T24* (Mty)
Total Construction CO2e	Area	0.02	0.02
18,715.00 Metric Tons	Energy	6,300.53	10,852.10

## Amortized Construction CO2e

		GHG Increment		
667.00 Metric Tons per Year for 30 Years	Total	6,300.55	10,852.12	--> 5,218.57 Metric Tons per Year
				10,000 Metric Tons per Year GHG Incremental Threshold

\*Not accounting for reductions in electrical GHGs due to LADWP increased renewable energy portfolio per 2015 Final IRP

### CalEEMod2016.3.1 Defaults (From User Guide Appendix A):

Electricity Emissions (KWhr/yr) <sub>Non-Residential</sub> = Local Utility EF (lbs CO2e/MWh) * Energy Intensity (KWhr/sq.ft.) * Size	
Los Angeles Department of Water & Power	1,227.89 lbs CO2/MWh
Los Angeles Department of Water & Power	0.029 lbs CH4/MWh
Los Angeles Department of Water & Power	0.00617 lbs N2O/MWh
Los Angeles Department of Water & Power:	1230.45366 lbs CO2e/MWh
Elec. Energy Intensity for Non-Residential:	0.01363 KWhr/sq.ft.
Based on: <a href="http://capabilities.itron.com/CeusWeb/Chart.aspx">http://capabilities.itron.com/CeusWeb/Chart.aspx</a> used in CalEEMod	
Natural Gas Emissions (kBTU/yr) <sub>Non-Residential</sub> = AP-42 EF (lbs CO2e/kBTU) * Energy Intensity (kBTU/sq.ft.) * Size	
AP-42 Natural Gas EF (lbs CO2e/kBTU):	0.11 lb CO2/kBTU
Based on: <a href="https://www3.epa.gov/ttn/chieff/ap42/ch03/final/c03s01.pdf">https://www3.epa.gov/ttn/chieff/ap42/ch03/final/c03s01.pdf</a> AP-42 used in CalEEMod	
N.Gas Energy Intensity for Non-Residential:	46.5074682 kBTU/sq.ft.
Based on: <a href="http://capabilities.itron.com/CeusWeb/Chart.aspx">http://capabilities.itron.com/CeusWeb/Chart.aspx</a> used in CalEEMod	
proposed Project Size	1,620,010.00 sq.ft.
Existing Size	788,018.00 sq.ft.
Outdoor Water Use Assumption:	28.75%
Based on: <a href="http://pacinst.org/app/uploads/2013/02/appendix_e3.pdf">http://pacinst.org/app/uploads/2013/02/appendix_e3.pdf</a> used in CalEEMod (pg 2 pdf)	
Solid Waste CO2e Emissions:	0.9 tons of waste / 1000 sq.ft. / year

# LAX T2/T3 Modernization Project, Draft EIR

## T2/T3 GHG Analysis

Detailed Analysis with Other Measures (For Disclosure)

	Energy-Related Operational GHG Emissions	
	2016 GHG Baseline, 2001 T24* (Mty)	LEED GHG Future, 2016 T24** (Mty)
<b>Total Construction CO2e</b>	0 02	0 02
18,715 00 Metric Tons	7,709 27	8,010 47

## Amortized Construction CO2e

		GHG Increment	
667 00 Metric Tons per Year for 30 Years	Total	7,709 29	8,010 49
			968 21

\*Energy reductions of 7.7% for electricity & 3.2% for natural gas from page 8 of PDF removed from calculations: [http://www.reg-info.ca.gov/audience/0326-04/Documents/Aud83526/ASTROLab\\_3526\\_Engag-ImpactAnalysis\\_20ma\\_04.pdf](http://www.reg-info.ca.gov/audience/0326-04/Documents/Aud83526/ASTROLab_3526_Engag-ImpactAnalysis_20ma_04.pdf)

\*\*Energy reductions of 4.6% for electricity & 0.05% for natural gas from page 3 of PDF: [http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/5-day\\_language/Impact\\_analysis/2016\\_Impact\\_Analysis\\_2015-06-](http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/5-day_language/Impact_analysis/2016_Impact_Analysis_2015-06-)

10,000 Metric Tons per Year GHG Incremental Threshold

### CalEEMod2016.3.1 Defaults (From User Guide Appendix A):

Electricity Emissions (KWhr/yr) <sup>Non-Residential</sup>	Local Utility EF (lbs CO2e/MWh) * Energy Intensity (KWhr/sq ft) * Size
Los Angeles Department of Water & Power	1,227 89 lbs CO2/MWh
Los Angeles Department of Water & Power	0 029 lbs CH4/MWh
Los Angeles Department of Water & Power	0 00617 lbs N2O/MWh
Los Angeles Department of Water & Power:	1230 45366 lbs CO2e/MWh
Elec. Energy Intensity for Non-Residential:	0 01363 KWhr/sq ft
Based on <a href="http://capabilities.iron.com/CeusWeb/Chart.aspx">http://capabilities.iron.com/CeusWeb/Chart.aspx</a> used in CalEEMod	
Los Angeles Department of Water & Power:	851 lbs CO2e/MWh in 2023 based on 2015 Final IRP
Natural Gas Emissions (kBtu/yr) <sup>Non-Residential</sup>	AP-42 EF (lbs CO2e/kBTU) * Energy Intensity (kBtu/sq ft) * Size
AP-42 Natural Gas EF (lbs CO2e/kBTU):	0 11 lb CO2/kBTU
Based on <a href="https://www3.epa.gov/ttn/chiefoff/opa42/ch03/final/c03r01.pdf">https://www3.epa.gov/ttn/chiefoff/opa42/ch03/final/c03r01.pdf</a> AP-42 used in CalEEMod	
N Gas Energy Intensity for Non-Residential:	46 5074682 kBtu/sq ft
Based on <a href="http://capabilities.iron.com/CeusWeb/Chart.aspx">http://capabilities.iron.com/CeusWeb/Chart.aspx</a> used in CalEEMod	
proposed Project Size	1,620,010 00 sq ft
Existing Size	788,018 00 sq ft
Outdoor Water Use Assumption:	28 75%
Based on <a href="http://pacinst.org/app/uploads/2013/02/appendix_e3.pdf">http://pacinst.org/app/uploads/2013/02/appendix_e3.pdf</a> used in CalEEMod (pg.2 pdf)	
Solid Waste CO2e Emissions:	0 9 tons of waste / 1000 sq ft / year

### 2015 Power Integrated Resource Plan Emissions Data

Year	CO2/MWh
2000	1413
2001	1422
2002	1388
2003	1393
2004	1380
2005	1319
2006	1279
2007	1245
2008	1217
2009	1151
2010	1104
2011	1156
2012	1094
2013	1135
2014	1163
2015	1054
2016	1029
2017	1003
2018	978
2019	952
2020	927
2021	901
2022	876
2023	851

Extrapolated Data Start

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## Appendix B.2.2

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### Operations – CalEEMod GHG Outputs

- 2016 Baseline (2013 Title 24 Regulations) CalEEMod Output
- 2016 Baseline (2005 Title 24 Regulations) CalEEMod Output
- 2023 LEED Project (2013 Title 24 Regulations) CalEEMod Output

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**T2T3 2016 Baseline Scenario (2013 Title 24)**  
**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
General Office Building	788.02	1000sqft	33.92	788,018.00	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>	11			<b>Operational Year</b>	2016
<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**

Project Characteristics -

Land Use - Lot acreage from project description

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	18.09	33.92
tblProjectCharacteristics	OperationalYear	2018	2016

**2.0 Emissions Summary**

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T2T3 2016 Baseline Scenario (2013 Title 24) - 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					
2014	0.0187	0.1923	0.0984	1.6000e-004	6.6000e-004	0.0101	0.0108	1.7000e-004	9.4400e-003	9.6100e-003	0.0000	15.4043	15.4043	4.0000e-003	0.0000	15.5043
2015	0.8259	7.2811	5.3585	0.0105	0.6955	0.3434	1.0389	0.2668	0.3208	0.5875	0.0000	974.8524	974.8524	0.1514	0.0000	978.6377
2016	0.7862	6.3618	5.3570	0.0121	0.4664	0.2857	0.7521	0.1263	0.2688	0.3951	0.0000	1,122.5317	1,122.5317	0.1290	0.0000	1,125.7574
2017	3.8745	1.8740	1.5942	3.5900e-003	0.1286	0.0870	0.2156	0.0348	0.0816	0.1163	0.0000	330.3560	330.3560	0.0431	0.0000	331.4329
<b>Maximum</b>	<b>3.8745</b>	<b>7.2811</b>	<b>5.3585</b>	<b>0.0121</b>	<b>0.6955</b>	<b>0.3434</b>	<b>1.0389</b>	<b>0.2668</b>	<b>0.3208</b>	<b>0.5875</b>	<b>0.0000</b>	<b>1,122.5317</b>	<b>1,122.5317</b>	<b>0.1514</b>	<b>0.0000</b>	<b>1,125.7574</b>

## T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, 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					
2014	0.0187	0.1923	0.0984	1.6000e-004	6.6000e-004	0.0101	0.0108	1.7000e-004	9.4400e-003	9.6100e-003	0.0000	15.4043	15.4043	4.0000e-003	0.0000	15.5042
2015	0.8259	7.2811	5.3585	0.0105	0.6955	0.3434	1.0389	0.2668	0.3208	0.5875	0.0000	974.8519	974.8519	0.1514	0.0000	978.6372
2016	0.7862	6.3618	5.3570	0.0121	0.4664	0.2857	0.7521	0.1263	0.2688	0.3951	0.0000	1,122.5313	1,122.5313	0.1290	0.0000	1,125.7570
2017	3.8745	1.8740	1.5942	3.5900e-003	0.1286	0.0870	0.2156	0.0348	0.0816	0.1163	0.0000	330.3559	330.3559	0.0431	0.0000	331.4328
<b>Maximum</b>	<b>3.8745</b>	<b>7.2811</b>	<b>5.3585</b>	<b>0.0121</b>	<b>0.6955</b>	<b>0.3434</b>	<b>1.0389</b>	<b>0.2668</b>	<b>0.3208</b>	<b>0.5875</b>	<b>0.0000</b>	<b>1,122.5313</b>	<b>1,122.5313</b>	<b>0.1514</b>	<b>0.0000</b>	<b>1,125.7570</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>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	12-21-2014	3-20-2015	1.9900	1.9900
2	3-21-2015	6-20-2015	2.2637	2.2637
3	6-21-2015	9-20-2015	1.8911	1.8911
4	9-21-2015	12-20-2015	1.8867	1.8867
5	12-21-2015	3-20-2016	1.7875	1.7875
6	3-21-2016	6-20-2016	1.7796	1.7796
7	6-21-2016	9-20-2016	1.7777	1.7777
8	9-21-2016	12-20-2016	1.7719	1.7719

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

9	12-21-2016	3-20-2017	1.6344	1.6344
10	3-21-2017	6-20-2017	3.0176	3.0176
11	6-21-2017	9-20-2017	1.2858	1.2858
		Highest	3.0176	3.0176

**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	3.2138	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209
Energy	0.0445	0.4041	0.3394	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	6,285.9511	6,285.9511	0.1465	0.0366	6,300.5296
Mobile	3.5629	16.1735	48.5191	0.1134	8.0796	0.1793	8.2589	2.1672	0.1694	2.3366	0.0000	10,409.4354	10,409.4354	0.7378	0.0000	10,427.8802
Waste						0.0000	0.0000		0.0000	0.0000	148.7660	0.0000	148.7660	8.7918	0.0000	368.5614
Water						0.0000	0.0000		0.0000	0.0000	44.4344	1,546.9217	1,591.3562	4.6004	0.1153	1,740.7313
<b>Total</b>	<b>6.8211</b>	<b>16.5777</b>	<b>48.8688</b>	<b>0.1158</b>	<b>8.0796</b>	<b>0.2101</b>	<b>8.2897</b>	<b>2.1672</b>	<b>0.2002</b>	<b>2.3674</b>	<b>193.2004</b>	<b>18,242.3278</b>	<b>18,435.5282</b>	<b>14.2766</b>	<b>0.1520</b>	<b>18,837.7234</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - 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	3.2138	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209
Energy	0.0445	0.4041	0.3394	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	6,285.9511	6,285.9511	0.1465	0.0366	6,300.5296
Mobile	3.5629	16.1735	48.5191	0.1134	8.0796	0.1793	8.2589	2.1672	0.1694	2.3366	0.0000	10,409.4354	10,409.4354	0.7378	0.0000	10,427.8802
Waste						0.0000	0.0000		0.0000	0.0000	148.7660	0.0000	148.7660	8.7918	0.0000	368.5614
Water						0.0000	0.0000		0.0000	0.0000	44.4344	1,546.9217	1,591.3562	4.6004	0.1153	1,740.7313
<b>Total</b>	<b>6.8211</b>	<b>16.5777</b>	<b>48.8688</b>	<b>0.1158</b>	<b>8.0796</b>	<b>0.2101</b>	<b>8.2897</b>	<b>2.1672</b>	<b>0.2002</b>	<b>2.3674</b>	<b>193.2004</b>	<b>18,242.3278</b>	<b>18,435.5282</b>	<b>14.2766</b>	<b>0.1520</b>	<b>18,837.7234</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**

## T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/21/2014	1/30/2015	5	30	
2	Site Preparation	Site Preparation	1/31/2015	2/27/2015	5	20	
3	Grading	Grading	2/28/2015	5/1/2015	5	45	
4	Building Construction	Building Construction	5/2/2015	3/31/2017	5	500	
5	Paving	Paving	4/1/2017	5/19/2017	5	35	
6	Architectural Coating	Architectural Coating	5/20/2017	7/7/2017	5	35	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,182,047; Non-Residential Outdoor: 394,016; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, 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
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	252.00	129.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2014**

**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	0.0181	0.1918	0.0932	1.6000e-004		0.0101	0.0101		9.4300e-003	9.4300e-003	0.0000	14.6856	14.6856	3.9600e-003	0.0000	14.7846
<b>Total</b>	<b>0.0181</b>	<b>0.1918</b>	<b>0.0932</b>	<b>1.6000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>9.4300e-003</b>	<b>9.4300e-003</b>	<b>0.0000</b>	<b>14.6856</b>	<b>14.6856</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>14.7846</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2014**

**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	5.5000e-004	4.9000e-004	5.1500e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.7187	0.7187	4.0000e-005	0.0000	0.7197
<b>Total</b>	<b>5.5000e-004</b>	<b>4.9000e-004</b>	<b>5.1500e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.7187</b>	<b>0.7187</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7197</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	0.0181	0.1918	0.0932	1.6000e-004		0.0101	0.0101		9.4300e-003	9.4300e-003	0.0000	14.6856	14.6856	3.9600e-003	0.0000	14.7846
<b>Total</b>	<b>0.0181</b>	<b>0.1918</b>	<b>0.0932</b>	<b>1.6000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>9.4300e-003</b>	<b>9.4300e-003</b>	<b>0.0000</b>	<b>14.6856</b>	<b>14.6856</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>14.7846</b>



T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2014**

**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	5.5000e-004	4.9000e-004	5.1500e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.7187	0.7187	4.0000e-005	0.0000	0.7197
<b>Total</b>	<b>5.5000e-004</b>	<b>4.9000e-004</b>	<b>5.1500e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.7187</b>	<b>0.7187</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7197</b>

**3.2 Demolition - 2015**

**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	0.0492	0.5176	0.2568	4.3000e-004		0.0271	0.0271		0.0253	0.0253	0.0000	40.0366	40.0366	0.0108	0.0000	40.3071
<b>Total</b>	<b>0.0492</b>	<b>0.5176</b>	<b>0.2568</b>	<b>4.3000e-004</b>		<b>0.0271</b>	<b>0.0271</b>		<b>0.0253</b>	<b>0.0253</b>	<b>0.0000</b>	<b>40.0366</b>	<b>40.0366</b>	<b>0.0108</b>	<b>0.0000</b>	<b>40.3071</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2015**

**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	1.3300e-003	1.1800e-003	0.0125	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	1.9409	1.9409	1.0000e-004	0.0000	1.9435
<b>Total</b>	<b>1.3300e-003</b>	<b>1.1800e-003</b>	<b>0.0125</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>2.0000e-005</b>	<b>1.8300e-003</b>	<b>4.8000e-004</b>	<b>2.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.9409</b>	<b>1.9409</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.9435</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	0.0492	0.5176	0.2568	4.3000e-004		0.0271	0.0271		0.0253	0.0253	0.0000	40.0365	40.0365	0.0108	0.0000	40.3071
<b>Total</b>	<b>0.0492</b>	<b>0.5176</b>	<b>0.2568</b>	<b>4.3000e-004</b>		<b>0.0271</b>	<b>0.0271</b>		<b>0.0253</b>	<b>0.0253</b>	<b>0.0000</b>	<b>40.0365</b>	<b>40.0365</b>	<b>0.0108</b>	<b>0.0000</b>	<b>40.3071</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2015**

**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	1.3300e-003	1.1800e-003	0.0125	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	1.9409	1.9409	1.0000e-004	0.0000	1.9435
<b>Total</b>	<b>1.3300e-003</b>	<b>1.1800e-003</b>	<b>0.0125</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>2.0000e-005</b>	<b>1.8300e-003</b>	<b>4.8000e-004</b>	<b>2.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.9409</b>	<b>1.9409</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.9435</b>

**3.3 Site Preparation - 2015**

**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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0525	0.5546	0.2392	3.8000e-004		0.0313	0.0313		0.0288	0.0288	0.0000	36.2945	36.2945	0.0108	0.0000	36.5654
<b>Total</b>	<b>0.0525</b>	<b>0.5546</b>	<b>0.2392</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0313</b>	<b>0.2120</b>	<b>0.0993</b>	<b>0.0288</b>	<b>0.1281</b>	<b>0.0000</b>	<b>36.2945</b>	<b>36.2945</b>	<b>0.0108</b>	<b>0.0000</b>	<b>36.5654</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.3 Site Preparation - 2015**

**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	1.4600e-003	1.2900e-003	0.0137	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	2.1174	2.1174	1.1000e-004	0.0000	2.1201
<b>Total</b>	<b>1.4600e-003</b>	<b>1.2900e-003</b>	<b>0.0137</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>2.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>2.1174</b>	<b>2.1174</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.1201</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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0525	0.5546	0.2392	3.8000e-004		0.0313	0.0313		0.0288	0.0288	0.0000	36.2945	36.2945	0.0108	0.0000	36.5654
<b>Total</b>	<b>0.0525</b>	<b>0.5546</b>	<b>0.2392</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0313</b>	<b>0.2120</b>	<b>0.0993</b>	<b>0.0288</b>	<b>0.1281</b>	<b>0.0000</b>	<b>36.2945</b>	<b>36.2945</b>	<b>0.0108</b>	<b>0.0000</b>	<b>36.5654</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.3 Site Preparation - 2015**

**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	1.4600e-003	1.2900e-003	0.0137	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	2.1174	2.1174	1.1000e-004	0.0000	2.1201
<b>Total</b>	<b>1.4600e-003</b>	<b>1.2900e-003</b>	<b>0.0137</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>2.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>2.1174</b>	<b>2.1174</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.1201</b>

**3.4 Grading - 2015**

**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					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1411	1.7061	0.9410	1.4000e-003		0.0781	0.0781		0.0718	0.0718	0.0000	133.0031	133.0031	0.0397	0.0000	133.9958
<b>Total</b>	<b>0.1411</b>	<b>1.7061</b>	<b>0.9410</b>	<b>1.4000e-003</b>	<b>0.1952</b>	<b>0.0781</b>	<b>0.2732</b>	<b>0.0809</b>	<b>0.0718</b>	<b>0.1528</b>	<b>0.0000</b>	<b>133.0031</b>	<b>133.0031</b>	<b>0.0397</b>	<b>0.0000</b>	<b>133.9958</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.4 Grading - 2015**

**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	3.6400e-003	3.2200e-003	0.0341	6.0000e-005	4.9300e-003	5.0000e-005	4.9800e-003	1.3100e-003	5.0000e-005	1.3600e-003	0.0000	5.2935	5.2935	2.7000e-004	0.0000	5.3003
<b>Total</b>	<b>3.6400e-003</b>	<b>3.2200e-003</b>	<b>0.0341</b>	<b>6.0000e-005</b>	<b>4.9300e-003</b>	<b>5.0000e-005</b>	<b>4.9800e-003</b>	<b>1.3100e-003</b>	<b>5.0000e-005</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>5.2935</b>	<b>5.2935</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>5.3003</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					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1411	1.7061	0.9410	1.4000e-003		0.0781	0.0781		0.0718	0.0718	0.0000	133.0030	133.0030	0.0397	0.0000	133.9956
<b>Total</b>	<b>0.1411</b>	<b>1.7061</b>	<b>0.9410</b>	<b>1.4000e-003</b>	<b>0.1952</b>	<b>0.0781</b>	<b>0.2732</b>	<b>0.0809</b>	<b>0.0718</b>	<b>0.1528</b>	<b>0.0000</b>	<b>133.0030</b>	<b>133.0030</b>	<b>0.0397</b>	<b>0.0000</b>	<b>133.9956</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.4 Grading - 2015**

**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	3.6400e-003	3.2200e-003	0.0341	6.0000e-005	4.9300e-003	5.0000e-005	4.9800e-003	1.3100e-003	5.0000e-005	1.3600e-003	0.0000	5.2935	5.2935	2.7000e-004	0.0000	5.3003
<b>Total</b>	<b>3.6400e-003</b>	<b>3.2200e-003</b>	<b>0.0341</b>	<b>6.0000e-005</b>	<b>4.9300e-003</b>	<b>5.0000e-005</b>	<b>4.9800e-003</b>	<b>1.3100e-003</b>	<b>5.0000e-005</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>5.2935</b>	<b>5.2935</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>5.3003</b>

**3.5 Building Construction - 2015**

**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	0.3196	2.6274	1.6359	2.3400e-003		0.1848	0.1848		0.1738	0.1738	0.0000	213.1801	213.1801	0.0535	0.0000	214.5184
<b>Total</b>	<b>0.3196</b>	<b>2.6274</b>	<b>1.6359</b>	<b>2.3400e-003</b>		<b>0.1848</b>	<b>0.1848</b>		<b>0.1738</b>	<b>0.1738</b>	<b>0.0000</b>	<b>213.1801</b>	<b>213.1801</b>	<b>0.0535</b>	<b>0.0000</b>	<b>214.5184</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2015**

**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	0.0798	1.7126	0.5618	2.9600e-003	0.0707	0.0194	0.0901	0.0204	0.0186	0.0390	0.0000	285.0877	285.0877	0.0227	0.0000	285.6560
Worker	0.1772	0.1571	1.6634	2.8700e-003	0.2402	2.5600e-003	0.2428	0.0638	2.3700e-003	0.0662	0.0000	257.8986	257.8986	0.0133	0.0000	258.2311
<b>Total</b>	<b>0.2571</b>	<b>1.8697</b>	<b>2.2252</b>	<b>5.8300e-003</b>	<b>0.3109</b>	<b>0.0220</b>	<b>0.3329</b>	<b>0.0842</b>	<b>0.0210</b>	<b>0.1052</b>	<b>0.0000</b>	<b>542.9863</b>	<b>542.9863</b>	<b>0.0360</b>	<b>0.0000</b>	<b>543.8871</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	0.3196	2.6274	1.6359	2.3400e-003		0.1848	0.1848		0.1738	0.1738	0.0000	213.1799	213.1799	0.0535	0.0000	214.5181
<b>Total</b>	<b>0.3196</b>	<b>2.6274</b>	<b>1.6359</b>	<b>2.3400e-003</b>		<b>0.1848</b>	<b>0.1848</b>		<b>0.1738</b>	<b>0.1738</b>	<b>0.0000</b>	<b>213.1799</b>	<b>213.1799</b>	<b>0.0535</b>	<b>0.0000</b>	<b>214.5181</b>



T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2015**

**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	0.0798	1.7126	0.5618	2.9600e-003	0.0707	0.0194	0.0901	0.0204	0.0186	0.0390	0.0000	285.0877	285.0877	0.0227	0.0000	285.6560
Worker	0.1772	0.1571	1.6634	2.8700e-003	0.2402	2.5600e-003	0.2428	0.0638	2.3700e-003	0.0662	0.0000	257.8986	257.8986	0.0133	0.0000	258.2311
<b>Total</b>	<b>0.2571</b>	<b>1.8697</b>	<b>2.2252</b>	<b>5.8300e-003</b>	<b>0.3109</b>	<b>0.0220</b>	<b>0.3329</b>	<b>0.0842</b>	<b>0.0210</b>	<b>0.1052</b>	<b>0.0000</b>	<b>542.9863</b>	<b>542.9863</b>	<b>0.0360</b>	<b>0.0000</b>	<b>543.8871</b>

**3.5 Building Construction - 2016**

**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	0.4463	3.7416	2.4227	3.5100e-003		0.2577	0.2577		0.2421	0.2421	0.0000	317.3540	317.3540	0.0788	0.0000	319.3235
<b>Total</b>	<b>0.4463</b>	<b>3.7416</b>	<b>2.4227</b>	<b>3.5100e-003</b>		<b>0.2577</b>	<b>0.2577</b>		<b>0.2421</b>	<b>0.2421</b>	<b>0.0000</b>	<b>317.3540</b>	<b>317.3540</b>	<b>0.0788</b>	<b>0.0000</b>	<b>319.3235</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2016**

**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	0.1049	2.4142	0.7408	4.4400e-003	0.1060	0.0244	0.1304	0.0306	0.0234	0.0540	0.0000	427.5202	427.5202	0.0327	0.0000	428.3382
Worker	0.2350	0.2060	2.1935	4.1900e-003	0.3604	3.6000e-003	0.3640	0.0957	3.3300e-003	0.0990	0.0000	377.6575	377.6575	0.0175	0.0000	378.0957
<b>Total</b>	<b>0.3399</b>	<b>2.6201</b>	<b>2.9343</b>	<b>8.6300e-003</b>	<b>0.4664</b>	<b>0.0280</b>	<b>0.4944</b>	<b>0.1263</b>	<b>0.0267</b>	<b>0.1530</b>	<b>0.0000</b>	<b>805.1778</b>	<b>805.1778</b>	<b>0.0503</b>	<b>0.0000</b>	<b>806.4339</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	0.4463	3.7416	2.4227	3.5100e-003		0.2577	0.2577		0.2421	0.2421	0.0000	317.3536	317.3536	0.0788	0.0000	319.3231
<b>Total</b>	<b>0.4463</b>	<b>3.7416</b>	<b>2.4227</b>	<b>3.5100e-003</b>		<b>0.2577</b>	<b>0.2577</b>		<b>0.2421</b>	<b>0.2421</b>	<b>0.0000</b>	<b>317.3536</b>	<b>317.3536</b>	<b>0.0788</b>	<b>0.0000</b>	<b>319.3231</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2016**

**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	0.1049	2.4142	0.7408	4.4400e-003	0.1060	0.0244	0.1304	0.0306	0.0234	0.0540	0.0000	427.5202	427.5202	0.0327	0.0000	428.3382
Worker	0.2350	0.2060	2.1935	4.1900e-003	0.3604	3.6000e-003	0.3640	0.0957	3.3300e-003	0.0990	0.0000	377.6575	377.6575	0.0175	0.0000	378.0957
<b>Total</b>	<b>0.3399</b>	<b>2.6201</b>	<b>2.9343</b>	<b>8.6300e-003</b>	<b>0.4664</b>	<b>0.0280</b>	<b>0.4944</b>	<b>0.1263</b>	<b>0.0267</b>	<b>0.1530</b>	<b>0.0000</b>	<b>805.1778</b>	<b>805.1778</b>	<b>0.0503</b>	<b>0.0000</b>	<b>806.4339</b>

**3.5 Building Construction - 2017**

**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	0.1012	0.8630	0.5909	8.7000e-004		0.0581	0.0581		0.0546	0.0546	0.0000	78.1602	78.1602	0.0193	0.0000	78.6416
<b>Total</b>	<b>0.1012</b>	<b>0.8630</b>	<b>0.5909</b>	<b>8.7000e-004</b>		<b>0.0581</b>	<b>0.0581</b>		<b>0.0546</b>	<b>0.0546</b>	<b>0.0000</b>	<b>78.1602</b>	<b>78.1602</b>	<b>0.0193</b>	<b>0.0000</b>	<b>78.6416</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2017**

**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	0.0223	0.5593	0.1632	1.1000e-003	0.0264	4.6100e-003	0.0310	7.6200e-003	4.4100e-003	0.0120	0.0000	106.3058	106.3058	7.6500e-003	0.0000	106.4972
Worker	0.0515	0.0447	0.4780	1.0200e-003	0.0898	8.5000e-004	0.0906	0.0238	7.9000e-004	0.0246	0.0000	91.6869	91.6869	3.8300e-003	0.0000	91.7825
<b>Total</b>	<b>0.0737</b>	<b>0.6040</b>	<b>0.6412</b>	<b>2.1200e-003</b>	<b>0.1162</b>	<b>5.4600e-003</b>	<b>0.1216</b>	<b>0.0315</b>	<b>5.2000e-003</b>	<b>0.0367</b>	<b>0.0000</b>	<b>197.9927</b>	<b>197.9927</b>	<b>0.0115</b>	<b>0.0000</b>	<b>198.2797</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	0.1012	0.8630	0.5909	8.7000e-004		0.0581	0.0581		0.0546	0.0546	0.0000	78.1601	78.1601	0.0193	0.0000	78.6415
<b>Total</b>	<b>0.1012</b>	<b>0.8630</b>	<b>0.5909</b>	<b>8.7000e-004</b>		<b>0.0581</b>	<b>0.0581</b>		<b>0.0546</b>	<b>0.0546</b>	<b>0.0000</b>	<b>78.1601</b>	<b>78.1601</b>	<b>0.0193</b>	<b>0.0000</b>	<b>78.6415</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2017**

**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	0.0223	0.5593	0.1632	1.1000e-003	0.0264	4.6100e-003	0.0310	7.6200e-003	4.4100e-003	0.0120	0.0000	106.3058	106.3058	7.6500e-003	0.0000	106.4972
Worker	0.0515	0.0447	0.4780	1.0200e-003	0.0898	8.5000e-004	0.0906	0.0238	7.9000e-004	0.0246	0.0000	91.6869	91.6869	3.8300e-003	0.0000	91.7825
<b>Total</b>	<b>0.0737</b>	<b>0.6040</b>	<b>0.6412</b>	<b>2.1200e-003</b>	<b>0.1162</b>	<b>5.4600e-003</b>	<b>0.1216</b>	<b>0.0315</b>	<b>5.2000e-003</b>	<b>0.0367</b>	<b>0.0000</b>	<b>197.9927</b>	<b>197.9927</b>	<b>0.0115</b>	<b>0.0000</b>	<b>198.2797</b>

**3.6 Paving - 2017**

**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	0.0340	0.3626	0.2631	4.0000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	37.0007	37.0007	0.0113	0.0000	37.2841
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>0.0340</b>	<b>0.3626</b>	<b>0.2631</b>	<b>4.0000e-004</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0187</b>	<b>0.0187</b>	<b>0.0000</b>	<b>37.0007</b>	<b>37.0007</b>	<b>0.0113</b>	<b>0.0000</b>	<b>37.2841</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.6 Paving - 2017**

**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	1.6500e-003	1.4300e-003	0.0153	3.0000e-005	2.8800e-003	3.0000e-005	2.9000e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	2.9387	2.9387	1.2000e-004	0.0000	2.9418
<b>Total</b>	<b>1.6500e-003</b>	<b>1.4300e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>3.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>3.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>2.9387</b>	<b>2.9387</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.9418</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	0.0340	0.3626	0.2631	4.0000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	37.0007	37.0007	0.0113	0.0000	37.2841
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>0.0340</b>	<b>0.3626</b>	<b>0.2631</b>	<b>4.0000e-004</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0187</b>	<b>0.0187</b>	<b>0.0000</b>	<b>37.0007</b>	<b>37.0007</b>	<b>0.0113</b>	<b>0.0000</b>	<b>37.2841</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.6 Paving - 2017**

**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	1.6500e-003	1.4300e-003	0.0153	3.0000e-005	2.8800e-003	3.0000e-005	2.9000e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	2.9387	2.9387	1.2000e-004	0.0000	2.9418
<b>Total</b>	<b>1.6500e-003</b>	<b>1.4300e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>3.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>3.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>2.9387</b>	<b>2.9387</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.9418</b>

**3.7 Architectural Coating - 2017**

**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	3.6525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8200e-003	0.0382	0.0327	5.0000e-005		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	4.4682	4.4682	4.7000e-004	0.0000	4.4800
<b>Total</b>	<b>3.6584</b>	<b>0.0382</b>	<b>0.0327</b>	<b>5.0000e-005</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.4800</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2017**

**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	5.5000e-003	4.7700e-003	0.0511	1.1000e-004	9.5900e-003	9.0000e-005	9.6800e-003	2.5500e-003	8.0000e-005	2.6300e-003	0.0000	9.7956	9.7956	4.1000e-004	0.0000	9.8058
<b>Total</b>	<b>5.5000e-003</b>	<b>4.7700e-003</b>	<b>0.0511</b>	<b>1.1000e-004</b>	<b>9.5900e-003</b>	<b>9.0000e-005</b>	<b>9.6800e-003</b>	<b>2.5500e-003</b>	<b>8.0000e-005</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>9.7956</b>	<b>9.7956</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>9.8058</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	3.6525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8200e-003	0.0382	0.0327	5.0000e-005		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	4.4682	4.4682	4.7000e-004	0.0000	4.4800
<b>Total</b>	<b>3.6584</b>	<b>0.0382</b>	<b>0.0327</b>	<b>5.0000e-005</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.4800</b>



T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2017**

**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	5.5000e-003	4.7700e-003	0.0511	1.1000e-004	9.5900e-003	9.0000e-005	9.6800e-003	2.5500e-003	8.0000e-005	2.6300e-003	0.0000	9.7956	9.7956	4.1000e-004	0.0000	9.8058
<b>Total</b>	<b>5.5000e-003</b>	<b>4.7700e-003</b>	<b>0.0511</b>	<b>1.1000e-004</b>	<b>9.5900e-003</b>	<b>9.0000e-005</b>	<b>9.6800e-003</b>	<b>2.5500e-003</b>	<b>8.0000e-005</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>9.7956</b>	<b>9.7956</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>9.8058</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

T2T3 2016 Baseline Scenario (2013 Title 24) - 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	3.5629	16.1735	48.5191	0.1134	8.0796	0.1793	8.2589	2.1672	0.1694	2.3366	0.0000	10,409.4354	10,409.4354	0.7378	0.0000	10,427.8802
Unmitigated	3.5629	16.1735	48.5191	0.1134	8.0796	0.1793	8.2589	2.1672	0.1694	2.3366	0.0000	10,409.4354	10,409.4354	0.7378	0.0000	10,427.8802

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	8,691.84	1,938.52	827.42	21,273,210	21,273,210
Total	8,691.84	1,938.52	827.42	21,273,210	21,273,210

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994

5.0 Energy Detail

Historical Energy Use: N

T2T3 2016 Baseline Scenario (2013 Title 24) - 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	5,846.0909	5,846.0909	0.1381	0.0286	5,858.0555
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,846.0909	5,846.0909	0.1381	0.0286	5,858.0555
NaturalGas Mitigated	0.0445	0.4041	0.3394	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	439.8602	439.8602	8.4300e-003	8.0600e-003	442.4740
NaturalGas Unmitigated	0.0445	0.4041	0.3394	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	439.8602	439.8602	8.4300e-003	8.0600e-003	442.4740

**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					
General Office Building	8.24267e+006	0.0445	0.4041	0.3394	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	439.8602	439.8602	8.4300e-003	8.0600e-003	442.4740
<b>Total</b>		<b>0.0445</b>	<b>0.4041</b>	<b>0.3394</b>	<b>2.4200e-003</b>		<b>0.0307</b>	<b>0.0307</b>		<b>0.0307</b>	<b>0.0307</b>	<b>0.0000</b>	<b>439.8602</b>	<b>439.8602</b>	<b>8.4300e-003</b>	<b>8.0600e-003</b>	<b>442.4740</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - 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					
General Office Building	8.24267e+006	0.0445	0.4041	0.3394	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	439.8602	439.8602	8.4300e-003	8.0600e-003	442.4740
<b>Total</b>		<b>0.0445</b>	<b>0.4041</b>	<b>0.3394</b>	<b>2.4200e-003</b>		<b>0.0307</b>	<b>0.0307</b>		<b>0.0307</b>	<b>0.0307</b>	<b>0.0000</b>	<b>439.8602</b>	<b>439.8602</b>	<b>8.4300e-003</b>	<b>8.0600e-003</b>	<b>442.4740</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.04964e+007	5,846.0909	0.1381	0.0286	5,858.0555
<b>Total</b>		<b>5,846.0909</b>	<b>0.1381</b>	<b>0.0286</b>	<b>5,858.0555</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - 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			
General Office Building	1.04964e+007	5,846.0909	0.1381	0.0286	5,858.0555
<b>Total</b>		<b>5,846.0909</b>	<b>0.1381</b>	<b>0.0286</b>	<b>5,858.0555</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	3.2138	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209
Unmitigated	3.2138	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209

T2T3 2016 Baseline Scenario (2013 Title 24) - 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	0.3653					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8475					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209
<b>Total</b>	<b>3.2138</b>	<b>1.0000e-004</b>	<b>0.0103</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0196</b>	<b>0.0196</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0209</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	tons/yr										MT/yr					
Architectural Coating	0.3653					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8475					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209
<b>Total</b>	<b>3.2138</b>	<b>1.0000e-004</b>	<b>0.0103</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0196</b>	<b>0.0196</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0209</b>

**7.0 Water Detail**

T2T3 2016 Baseline Scenario (2013 Title 24) - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,591.356 2	4.6004	0.1153	1,740.731 3
Unmitigated	1,591.356 2	4.6004	0.1153	1,740.731 3

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	140.06 / 85.8429	1,591.356 2	4.6004	0.1153	1,740.731 3
<b>Total</b>		<b>1,591.356 2</b>	<b>4.6004</b>	<b>0.1153</b>	<b>1,740.731 3</b>

T2T3 2016 Baseline Scenario (2013 Title 24) - 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			
General Office Building	140.06 / 85.8429	1,591.356 2	4.6004	0.1153	1,740.731 3
<b>Total</b>		<b>1,591.356 2</b>	<b>4.6004</b>	<b>0.1153</b>	<b>1,740.731 3</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	148.7660	8.7918	0.0000	368.5614
Unmitigated	148.7660	8.7918	0.0000	368.5614



T2T3 2016 Baseline Scenario (2013 Title 24) - 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			
General Office Building	732.87	148.7660	8.7918	0.0000	368.5614
<b>Total</b>		<b>148.7660</b>	<b>8.7918</b>	<b>0.0000</b>	<b>368.5614</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	732.87	148.7660	8.7918	0.0000	368.5614
<b>Total</b>		<b>148.7660</b>	<b>8.7918</b>	<b>0.0000</b>	<b>368.5614</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## T2T3 2016 Baseline Scenario (2013 Title 24) - 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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T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**T2T3 2016 Baseline Scenario (2005 Title 24)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	788.02	1000sqft	33.92	788,018.00	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>	11			<b>Operational Year</b>	2016
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Lot acreage from project description

Energy Use - Historical data uses 2005 Title 24 requirements rather than most up-to-date and is more accurate to the existing terminals.

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	18.09	33.92
tblProjectCharacteristics	OperationalYear	2018	2016

**2.0 Emissions Summary**

## T2T3 2016 Baseline Scenario (2005 Title 24) - 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					
2014	0.0187	0.1923	0.0984	1.6000e-004	6.6000e-004	0.0101	0.0108	1.7000e-004	9.4400e-003	9.6100e-003	0.0000	15.4043	15.4043	4.0000e-003	0.0000	15.5043
2015	0.8259	7.2811	5.3585	0.0105	0.6955	0.3434	1.0389	0.2668	0.3208	0.5875	0.0000	974.8524	974.8524	0.1514	0.0000	978.6377
2016	0.7862	6.3618	5.3570	0.0121	0.4664	0.2857	0.7521	0.1263	0.2688	0.3951	0.0000	1,122.5317	1,122.5317	0.1290	0.0000	1,125.7574
2017	3.8745	1.8740	1.5942	3.5900e-003	0.1286	0.0870	0.2156	0.0348	0.0816	0.1163	0.0000	330.3560	330.3560	0.0431	0.0000	331.4329
<b>Maximum</b>	<b>3.8745</b>	<b>7.2811</b>	<b>5.3585</b>	<b>0.0121</b>	<b>0.6955</b>	<b>0.3434</b>	<b>1.0389</b>	<b>0.2668</b>	<b>0.3208</b>	<b>0.5875</b>	<b>0.0000</b>	<b>1,122.5317</b>	<b>1,122.5317</b>	<b>0.1514</b>	<b>0.0000</b>	<b>1,125.7574</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, 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					
2014	0.0187	0.1923	0.0984	1.6000e-004	6.6000e-004	0.0101	0.0108	1.7000e-004	9.4400e-003	9.6100e-003	0.0000	15.4043	15.4043	4.0000e-003	0.0000	15.5042
2015	0.8259	7.2811	5.3585	0.0105	0.6955	0.3434	1.0389	0.2668	0.3208	0.5875	0.0000	974.8519	974.8519	0.1514	0.0000	978.6372
2016	0.7862	6.3618	5.3570	0.0121	0.4664	0.2857	0.7521	0.1263	0.2688	0.3951	0.0000	1,122.5313	1,122.5313	0.1290	0.0000	1,125.7570
2017	3.8745	1.8740	1.5942	3.5900e-003	0.1286	0.0870	0.2156	0.0348	0.0816	0.1163	0.0000	330.3559	330.3559	0.0431	0.0000	331.4328
<b>Maximum</b>	<b>3.8745</b>	<b>7.2811</b>	<b>5.3585</b>	<b>0.0121</b>	<b>0.6955</b>	<b>0.3434</b>	<b>1.0389</b>	<b>0.2668</b>	<b>0.3208</b>	<b>0.5875</b>	<b>0.0000</b>	<b>1,122.5313</b>	<b>1,122.5313</b>	<b>0.1514</b>	<b>0.0000</b>	<b>1,125.7570</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>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	12-21-2014	3-20-2015	1.9900	1.9900
2	3-21-2015	6-20-2015	2.2637	2.2637
3	6-21-2015	9-20-2015	1.8911	1.8911
4	9-21-2015	12-20-2015	1.8867	1.8867
5	12-21-2015	3-20-2016	1.7875	1.7875
6	3-21-2016	6-20-2016	1.7796	1.7796
7	6-21-2016	9-20-2016	1.7777	1.7777
8	9-21-2016	12-20-2016	1.7719	1.7719

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

9	12-21-2016	3-20-2017	1.6344	1.6344
10	3-21-2017	6-20-2017	3.0176	3.0176
11	6-21-2017	9-20-2017	1.2858	1.2858
		Highest	3.0176	3.0176

**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	3.2138	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209
Energy	0.0529	0.4805	0.4037	2.8800e-003		0.0365	0.0365		0.0365	0.0365	0.0000	7,211.8931	7,211.8931	0.1680	0.0423	7,228.6910
Mobile	3.5629	16.1735	48.5191	0.1134	8.0796	0.1793	8.2589	2.1672	0.1694	2.3366	0.0000	10,409.4354	10,409.4354	0.7378	0.0000	10,427.8802
Waste						0.0000	0.0000		0.0000	0.0000	148.7660	0.0000	148.7660	8.7918	0.0000	368.5614
Water						0.0000	0.0000		0.0000	0.0000	44.4344	1,546.9217	1,591.3562	4.6004	0.1153	1,740.7313
<b>Total</b>	<b>6.8295</b>	<b>16.6542</b>	<b>48.9331</b>	<b>0.1163</b>	<b>8.0796</b>	<b>0.2159</b>	<b>8.2955</b>	<b>2.1672</b>	<b>0.2060</b>	<b>2.3732</b>	<b>193.2004</b>	<b>19,168.2698</b>	<b>19,361.4702</b>	<b>14.2981</b>	<b>0.1576</b>	<b>19,765.8849</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - 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	3.2138	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209
Energy	0.0529	0.4805	0.4037	2.8800e-003		0.0365	0.0365		0.0365	0.0365	0.0000	7,211.8931	7,211.8931	0.1680	0.0423	7,228.6910
Mobile	3.5629	16.1735	48.5191	0.1134	8.0796	0.1793	8.2589	2.1672	0.1694	2.3366	0.0000	10,409.4354	10,409.4354	0.7378	0.0000	10,427.8802
Waste						0.0000	0.0000		0.0000	0.0000	148.7660	0.0000	148.7660	8.7918	0.0000	368.5614
Water						0.0000	0.0000		0.0000	0.0000	44.4344	1,546.9217	1,591.3562	4.6004	0.1153	1,740.7313
<b>Total</b>	<b>6.8295</b>	<b>16.6542</b>	<b>48.9331</b>	<b>0.1163</b>	<b>8.0796</b>	<b>0.2159</b>	<b>8.2955</b>	<b>2.1672</b>	<b>0.2060</b>	<b>2.3732</b>	<b>193.2004</b>	<b>19,168.2698</b>	<b>19,361.4702</b>	<b>14.2981</b>	<b>0.1576</b>	<b>19,765.8849</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**

## T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/21/2014	1/30/2015	5	30	
2	Site Preparation	Site Preparation	1/31/2015	2/27/2015	5	20	
3	Grading	Grading	2/28/2015	5/1/2015	5	45	
4	Building Construction	Building Construction	5/2/2015	3/31/2017	5	500	
5	Paving	Paving	4/1/2017	5/19/2017	5	35	
6	Architectural Coating	Architectural Coating	5/20/2017	7/7/2017	5	35	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,182,047; Non-Residential Outdoor: 394,016; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**



## T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, 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
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	252.00	129.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2014**

**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	0.0181	0.1918	0.0932	1.6000e-004		0.0101	0.0101		9.4300e-003	9.4300e-003	0.0000	14.6856	14.6856	3.9600e-003	0.0000	14.7846
<b>Total</b>	<b>0.0181</b>	<b>0.1918</b>	<b>0.0932</b>	<b>1.6000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>9.4300e-003</b>	<b>9.4300e-003</b>	<b>0.0000</b>	<b>14.6856</b>	<b>14.6856</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>14.7846</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2014**

**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	5.5000e-004	4.9000e-004	5.1500e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.7187	0.7187	4.0000e-005	0.0000	0.7197
<b>Total</b>	<b>5.5000e-004</b>	<b>4.9000e-004</b>	<b>5.1500e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.7187</b>	<b>0.7187</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7197</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	0.0181	0.1918	0.0932	1.6000e-004		0.0101	0.0101		9.4300e-003	9.4300e-003	0.0000	14.6856	14.6856	3.9600e-003	0.0000	14.7846
<b>Total</b>	<b>0.0181</b>	<b>0.1918</b>	<b>0.0932</b>	<b>1.6000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>9.4300e-003</b>	<b>9.4300e-003</b>	<b>0.0000</b>	<b>14.6856</b>	<b>14.6856</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>14.7846</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2014**

**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	5.5000e-004	4.9000e-004	5.1500e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.7187	0.7187	4.0000e-005	0.0000	0.7197
<b>Total</b>	<b>5.5000e-004</b>	<b>4.9000e-004</b>	<b>5.1500e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.7187</b>	<b>0.7187</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7197</b>

**3.2 Demolition - 2015**

**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	0.0492	0.5176	0.2568	4.3000e-004		0.0271	0.0271		0.0253	0.0253	0.0000	40.0366	40.0366	0.0108	0.0000	40.3071
<b>Total</b>	<b>0.0492</b>	<b>0.5176</b>	<b>0.2568</b>	<b>4.3000e-004</b>		<b>0.0271</b>	<b>0.0271</b>		<b>0.0253</b>	<b>0.0253</b>	<b>0.0000</b>	<b>40.0366</b>	<b>40.0366</b>	<b>0.0108</b>	<b>0.0000</b>	<b>40.3071</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2015**

**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	1.3300e-003	1.1800e-003	0.0125	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	1.9409	1.9409	1.0000e-004	0.0000	1.9435
<b>Total</b>	<b>1.3300e-003</b>	<b>1.1800e-003</b>	<b>0.0125</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>2.0000e-005</b>	<b>1.8300e-003</b>	<b>4.8000e-004</b>	<b>2.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.9409</b>	<b>1.9409</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.9435</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	0.0492	0.5176	0.2568	4.3000e-004		0.0271	0.0271		0.0253	0.0253	0.0000	40.0365	40.0365	0.0108	0.0000	40.3071
<b>Total</b>	<b>0.0492</b>	<b>0.5176</b>	<b>0.2568</b>	<b>4.3000e-004</b>		<b>0.0271</b>	<b>0.0271</b>		<b>0.0253</b>	<b>0.0253</b>	<b>0.0000</b>	<b>40.0365</b>	<b>40.0365</b>	<b>0.0108</b>	<b>0.0000</b>	<b>40.3071</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2015**

**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	1.3300e-003	1.1800e-003	0.0125	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	1.9409	1.9409	1.0000e-004	0.0000	1.9435
<b>Total</b>	<b>1.3300e-003</b>	<b>1.1800e-003</b>	<b>0.0125</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>2.0000e-005</b>	<b>1.8300e-003</b>	<b>4.8000e-004</b>	<b>2.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.9409</b>	<b>1.9409</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.9435</b>

**3.3 Site Preparation - 2015**

**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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0525	0.5546	0.2392	3.8000e-004		0.0313	0.0313		0.0288	0.0288	0.0000	36.2945	36.2945	0.0108	0.0000	36.5654
<b>Total</b>	<b>0.0525</b>	<b>0.5546</b>	<b>0.2392</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0313</b>	<b>0.2120</b>	<b>0.0993</b>	<b>0.0288</b>	<b>0.1281</b>	<b>0.0000</b>	<b>36.2945</b>	<b>36.2945</b>	<b>0.0108</b>	<b>0.0000</b>	<b>36.5654</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.3 Site Preparation - 2015**

**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	1.4600e-003	1.2900e-003	0.0137	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	2.1174	2.1174	1.1000e-004	0.0000	2.1201
<b>Total</b>	<b>1.4600e-003</b>	<b>1.2900e-003</b>	<b>0.0137</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>2.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>2.1174</b>	<b>2.1174</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.1201</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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0525	0.5546	0.2392	3.8000e-004		0.0313	0.0313		0.0288	0.0288	0.0000	36.2945	36.2945	0.0108	0.0000	36.5654
<b>Total</b>	<b>0.0525</b>	<b>0.5546</b>	<b>0.2392</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0313</b>	<b>0.2120</b>	<b>0.0993</b>	<b>0.0288</b>	<b>0.1281</b>	<b>0.0000</b>	<b>36.2945</b>	<b>36.2945</b>	<b>0.0108</b>	<b>0.0000</b>	<b>36.5654</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.3 Site Preparation - 2015**

**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	1.4600e-003	1.2900e-003	0.0137	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	2.1174	2.1174	1.1000e-004	0.0000	2.1201
<b>Total</b>	<b>1.4600e-003</b>	<b>1.2900e-003</b>	<b>0.0137</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>2.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>2.1174</b>	<b>2.1174</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.1201</b>

**3.4 Grading - 2015**

**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					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1411	1.7061	0.9410	1.4000e-003		0.0781	0.0781		0.0718	0.0718	0.0000	133.0031	133.0031	0.0397	0.0000	133.9958
<b>Total</b>	<b>0.1411</b>	<b>1.7061</b>	<b>0.9410</b>	<b>1.4000e-003</b>	<b>0.1952</b>	<b>0.0781</b>	<b>0.2732</b>	<b>0.0809</b>	<b>0.0718</b>	<b>0.1528</b>	<b>0.0000</b>	<b>133.0031</b>	<b>133.0031</b>	<b>0.0397</b>	<b>0.0000</b>	<b>133.9958</b>



T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.4 Grading - 2015**

**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	3.6400e-003	3.2200e-003	0.0341	6.0000e-005	4.9300e-003	5.0000e-005	4.9800e-003	1.3100e-003	5.0000e-005	1.3600e-003	0.0000	5.2935	5.2935	2.7000e-004	0.0000	5.3003
<b>Total</b>	<b>3.6400e-003</b>	<b>3.2200e-003</b>	<b>0.0341</b>	<b>6.0000e-005</b>	<b>4.9300e-003</b>	<b>5.0000e-005</b>	<b>4.9800e-003</b>	<b>1.3100e-003</b>	<b>5.0000e-005</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>5.2935</b>	<b>5.2935</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>5.3003</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					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1411	1.7061	0.9410	1.4000e-003		0.0781	0.0781		0.0718	0.0718	0.0000	133.0030	133.0030	0.0397	0.0000	133.9956
<b>Total</b>	<b>0.1411</b>	<b>1.7061</b>	<b>0.9410</b>	<b>1.4000e-003</b>	<b>0.1952</b>	<b>0.0781</b>	<b>0.2732</b>	<b>0.0809</b>	<b>0.0718</b>	<b>0.1528</b>	<b>0.0000</b>	<b>133.0030</b>	<b>133.0030</b>	<b>0.0397</b>	<b>0.0000</b>	<b>133.9956</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.4 Grading - 2015**

**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	3.6400e-003	3.2200e-003	0.0341	6.0000e-005	4.9300e-003	5.0000e-005	4.9800e-003	1.3100e-003	5.0000e-005	1.3600e-003	0.0000	5.2935	5.2935	2.7000e-004	0.0000	5.3003
<b>Total</b>	<b>3.6400e-003</b>	<b>3.2200e-003</b>	<b>0.0341</b>	<b>6.0000e-005</b>	<b>4.9300e-003</b>	<b>5.0000e-005</b>	<b>4.9800e-003</b>	<b>1.3100e-003</b>	<b>5.0000e-005</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>5.2935</b>	<b>5.2935</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>5.3003</b>

**3.5 Building Construction - 2015**

**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	0.3196	2.6274	1.6359	2.3400e-003		0.1848	0.1848		0.1738	0.1738	0.0000	213.1801	213.1801	0.0535	0.0000	214.5184
<b>Total</b>	<b>0.3196</b>	<b>2.6274</b>	<b>1.6359</b>	<b>2.3400e-003</b>		<b>0.1848</b>	<b>0.1848</b>		<b>0.1738</b>	<b>0.1738</b>	<b>0.0000</b>	<b>213.1801</b>	<b>213.1801</b>	<b>0.0535</b>	<b>0.0000</b>	<b>214.5184</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2015**

**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	0.0798	1.7126	0.5618	2.9600e-003	0.0707	0.0194	0.0901	0.0204	0.0186	0.0390	0.0000	285.0877	285.0877	0.0227	0.0000	285.6560
Worker	0.1772	0.1571	1.6634	2.8700e-003	0.2402	2.5600e-003	0.2428	0.0638	2.3700e-003	0.0662	0.0000	257.8986	257.8986	0.0133	0.0000	258.2311
<b>Total</b>	<b>0.2571</b>	<b>1.8697</b>	<b>2.2252</b>	<b>5.8300e-003</b>	<b>0.3109</b>	<b>0.0220</b>	<b>0.3329</b>	<b>0.0842</b>	<b>0.0210</b>	<b>0.1052</b>	<b>0.0000</b>	<b>542.9863</b>	<b>542.9863</b>	<b>0.0360</b>	<b>0.0000</b>	<b>543.8871</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	0.3196	2.6274	1.6359	2.3400e-003		0.1848	0.1848		0.1738	0.1738	0.0000	213.1799	213.1799	0.0535	0.0000	214.5181
<b>Total</b>	<b>0.3196</b>	<b>2.6274</b>	<b>1.6359</b>	<b>2.3400e-003</b>		<b>0.1848</b>	<b>0.1848</b>		<b>0.1738</b>	<b>0.1738</b>	<b>0.0000</b>	<b>213.1799</b>	<b>213.1799</b>	<b>0.0535</b>	<b>0.0000</b>	<b>214.5181</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2015**

**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	0.0798	1.7126	0.5618	2.9600e-003	0.0707	0.0194	0.0901	0.0204	0.0186	0.0390	0.0000	285.0877	285.0877	0.0227	0.0000	285.6560
Worker	0.1772	0.1571	1.6634	2.8700e-003	0.2402	2.5600e-003	0.2428	0.0638	2.3700e-003	0.0662	0.0000	257.8986	257.8986	0.0133	0.0000	258.2311
<b>Total</b>	<b>0.2571</b>	<b>1.8697</b>	<b>2.2252</b>	<b>5.8300e-003</b>	<b>0.3109</b>	<b>0.0220</b>	<b>0.3329</b>	<b>0.0842</b>	<b>0.0210</b>	<b>0.1052</b>	<b>0.0000</b>	<b>542.9863</b>	<b>542.9863</b>	<b>0.0360</b>	<b>0.0000</b>	<b>543.8871</b>

**3.5 Building Construction - 2016**

**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	0.4463	3.7416	2.4227	3.5100e-003		0.2577	0.2577		0.2421	0.2421	0.0000	317.3540	317.3540	0.0788	0.0000	319.3235
<b>Total</b>	<b>0.4463</b>	<b>3.7416</b>	<b>2.4227</b>	<b>3.5100e-003</b>		<b>0.2577</b>	<b>0.2577</b>		<b>0.2421</b>	<b>0.2421</b>	<b>0.0000</b>	<b>317.3540</b>	<b>317.3540</b>	<b>0.0788</b>	<b>0.0000</b>	<b>319.3235</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2016**

**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	0.1049	2.4142	0.7408	4.4400e-003	0.1060	0.0244	0.1304	0.0306	0.0234	0.0540	0.0000	427.5202	427.5202	0.0327	0.0000	428.3382
Worker	0.2350	0.2060	2.1935	4.1900e-003	0.3604	3.6000e-003	0.3640	0.0957	3.3300e-003	0.0990	0.0000	377.6575	377.6575	0.0175	0.0000	378.0957
<b>Total</b>	<b>0.3399</b>	<b>2.6201</b>	<b>2.9343</b>	<b>8.6300e-003</b>	<b>0.4664</b>	<b>0.0280</b>	<b>0.4944</b>	<b>0.1263</b>	<b>0.0267</b>	<b>0.1530</b>	<b>0.0000</b>	<b>805.1778</b>	<b>805.1778</b>	<b>0.0503</b>	<b>0.0000</b>	<b>806.4339</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	0.4463	3.7416	2.4227	3.5100e-003		0.2577	0.2577		0.2421	0.2421	0.0000	317.3536	317.3536	0.0788	0.0000	319.3231
<b>Total</b>	<b>0.4463</b>	<b>3.7416</b>	<b>2.4227</b>	<b>3.5100e-003</b>		<b>0.2577</b>	<b>0.2577</b>		<b>0.2421</b>	<b>0.2421</b>	<b>0.0000</b>	<b>317.3536</b>	<b>317.3536</b>	<b>0.0788</b>	<b>0.0000</b>	<b>319.3231</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2016**

**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	0.1049	2.4142	0.7408	4.4400e-003	0.1060	0.0244	0.1304	0.0306	0.0234	0.0540	0.0000	427.5202	427.5202	0.0327	0.0000	428.3382
Worker	0.2350	0.2060	2.1935	4.1900e-003	0.3604	3.6000e-003	0.3640	0.0957	3.3300e-003	0.0990	0.0000	377.6575	377.6575	0.0175	0.0000	378.0957
<b>Total</b>	<b>0.3399</b>	<b>2.6201</b>	<b>2.9343</b>	<b>8.6300e-003</b>	<b>0.4664</b>	<b>0.0280</b>	<b>0.4944</b>	<b>0.1263</b>	<b>0.0267</b>	<b>0.1530</b>	<b>0.0000</b>	<b>805.1778</b>	<b>805.1778</b>	<b>0.0503</b>	<b>0.0000</b>	<b>806.4339</b>

**3.5 Building Construction - 2017**

**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	0.1012	0.8630	0.5909	8.7000e-004		0.0581	0.0581		0.0546	0.0546	0.0000	78.1602	78.1602	0.0193	0.0000	78.6416
<b>Total</b>	<b>0.1012</b>	<b>0.8630</b>	<b>0.5909</b>	<b>8.7000e-004</b>		<b>0.0581</b>	<b>0.0581</b>		<b>0.0546</b>	<b>0.0546</b>	<b>0.0000</b>	<b>78.1602</b>	<b>78.1602</b>	<b>0.0193</b>	<b>0.0000</b>	<b>78.6416</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2017**

**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	0.0223	0.5593	0.1632	1.1000e-003	0.0264	4.6100e-003	0.0310	7.6200e-003	4.4100e-003	0.0120	0.0000	106.3058	106.3058	7.6500e-003	0.0000	106.4972
Worker	0.0515	0.0447	0.4780	1.0200e-003	0.0898	8.5000e-004	0.0906	0.0238	7.9000e-004	0.0246	0.0000	91.6869	91.6869	3.8300e-003	0.0000	91.7825
<b>Total</b>	<b>0.0737</b>	<b>0.6040</b>	<b>0.6412</b>	<b>2.1200e-003</b>	<b>0.1162</b>	<b>5.4600e-003</b>	<b>0.1216</b>	<b>0.0315</b>	<b>5.2000e-003</b>	<b>0.0367</b>	<b>0.0000</b>	<b>197.9927</b>	<b>197.9927</b>	<b>0.0115</b>	<b>0.0000</b>	<b>198.2797</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	0.1012	0.8630	0.5909	8.7000e-004		0.0581	0.0581		0.0546	0.0546	0.0000	78.1601	78.1601	0.0193	0.0000	78.6415
<b>Total</b>	<b>0.1012</b>	<b>0.8630</b>	<b>0.5909</b>	<b>8.7000e-004</b>		<b>0.0581</b>	<b>0.0581</b>		<b>0.0546</b>	<b>0.0546</b>	<b>0.0000</b>	<b>78.1601</b>	<b>78.1601</b>	<b>0.0193</b>	<b>0.0000</b>	<b>78.6415</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2017**

**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	0.0223	0.5593	0.1632	1.1000e-003	0.0264	4.6100e-003	0.0310	7.6200e-003	4.4100e-003	0.0120	0.0000	106.3058	106.3058	7.6500e-003	0.0000	106.4972
Worker	0.0515	0.0447	0.4780	1.0200e-003	0.0898	8.5000e-004	0.0906	0.0238	7.9000e-004	0.0246	0.0000	91.6869	91.6869	3.8300e-003	0.0000	91.7825
<b>Total</b>	<b>0.0737</b>	<b>0.6040</b>	<b>0.6412</b>	<b>2.1200e-003</b>	<b>0.1162</b>	<b>5.4600e-003</b>	<b>0.1216</b>	<b>0.0315</b>	<b>5.2000e-003</b>	<b>0.0367</b>	<b>0.0000</b>	<b>197.9927</b>	<b>197.9927</b>	<b>0.0115</b>	<b>0.0000</b>	<b>198.2797</b>

**3.6 Paving - 2017**

**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	0.0340	0.3626	0.2631	4.0000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	37.0007	37.0007	0.0113	0.0000	37.2841
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>0.0340</b>	<b>0.3626</b>	<b>0.2631</b>	<b>4.0000e-004</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0187</b>	<b>0.0187</b>	<b>0.0000</b>	<b>37.0007</b>	<b>37.0007</b>	<b>0.0113</b>	<b>0.0000</b>	<b>37.2841</b>



T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.6 Paving - 2017**

**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	1.6500e-003	1.4300e-003	0.0153	3.0000e-005	2.8800e-003	3.0000e-005	2.9000e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	2.9387	2.9387	1.2000e-004	0.0000	2.9418
<b>Total</b>	<b>1.6500e-003</b>	<b>1.4300e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>3.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>3.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>2.9387</b>	<b>2.9387</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.9418</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	0.0340	0.3626	0.2631	4.0000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	37.0007	37.0007	0.0113	0.0000	37.2841
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>0.0340</b>	<b>0.3626</b>	<b>0.2631</b>	<b>4.0000e-004</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0187</b>	<b>0.0187</b>	<b>0.0000</b>	<b>37.0007</b>	<b>37.0007</b>	<b>0.0113</b>	<b>0.0000</b>	<b>37.2841</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.6 Paving - 2017**

**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	1.6500e-003	1.4300e-003	0.0153	3.0000e-005	2.8800e-003	3.0000e-005	2.9000e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	2.9387	2.9387	1.2000e-004	0.0000	2.9418
<b>Total</b>	<b>1.6500e-003</b>	<b>1.4300e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>3.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>3.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>2.9387</b>	<b>2.9387</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.9418</b>

**3.7 Architectural Coating - 2017**

**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	3.6525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8200e-003	0.0382	0.0327	5.0000e-005		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	4.4682	4.4682	4.7000e-004	0.0000	4.4800
<b>Total</b>	<b>3.6584</b>	<b>0.0382</b>	<b>0.0327</b>	<b>5.0000e-005</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.4800</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2017**

**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	5.5000e-003	4.7700e-003	0.0511	1.1000e-004	9.5900e-003	9.0000e-005	9.6800e-003	2.5500e-003	8.0000e-005	2.6300e-003	0.0000	9.7956	9.7956	4.1000e-004	0.0000	9.8058
<b>Total</b>	<b>5.5000e-003</b>	<b>4.7700e-003</b>	<b>0.0511</b>	<b>1.1000e-004</b>	<b>9.5900e-003</b>	<b>9.0000e-005</b>	<b>9.6800e-003</b>	<b>2.5500e-003</b>	<b>8.0000e-005</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>9.7956</b>	<b>9.7956</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>9.8058</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	3.6525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8200e-003	0.0382	0.0327	5.0000e-005		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	4.4682	4.4682	4.7000e-004	0.0000	4.4800
<b>Total</b>	<b>3.6584</b>	<b>0.0382</b>	<b>0.0327</b>	<b>5.0000e-005</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.4800</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2017**

**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	5.5000e-003	4.7700e-003	0.0511	1.1000e-004	9.5900e-003	9.0000e-005	9.6800e-003	2.5500e-003	8.0000e-005	2.6300e-003	0.0000	9.7956	9.7956	4.1000e-004	0.0000	9.8058
<b>Total</b>	<b>5.5000e-003</b>	<b>4.7700e-003</b>	<b>0.0511</b>	<b>1.1000e-004</b>	<b>9.5900e-003</b>	<b>9.0000e-005</b>	<b>9.6800e-003</b>	<b>2.5500e-003</b>	<b>8.0000e-005</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>9.7956</b>	<b>9.7956</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>9.8058</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

T2T3 2016 Baseline Scenario (2005 Title 24) - 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	3.5629	16.1735	48.5191	0.1134	8.0796	0.1793	8.2589	2.1672	0.1694	2.3366	0.0000	10,409.4354	10,409.4354	0.7378	0.0000	10,427.8802
Unmitigated	3.5629	16.1735	48.5191	0.1134	8.0796	0.1793	8.2589	2.1672	0.1694	2.3366	0.0000	10,409.4354	10,409.4354	0.7378	0.0000	10,427.8802

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	8,691.84	1,938.52	827.42	21,273,210	21,273,210
Total	8,691.84	1,938.52	827.42	21,273,210	21,273,210

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994

5.0 Energy Detail

Historical Energy Use: Y

T2T3 2016 Baseline Scenario (2005 Title 24) - 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	6,688.7707	6,688.7707	0.1580	0.0327	6,702.4599
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,688.7707	6,688.7707	0.1580	0.0327	6,702.4599
NaturalGas Mitigated	0.0529	0.4805	0.4037	2.8800e-003		0.0365	0.0365		0.0365	0.0365	0.0000	523.1224	523.1224	0.0100	9.5900e-003	526.2311
NaturalGas Unmitigated	0.0529	0.4805	0.4037	2.8800e-003		0.0365	0.0365		0.0365	0.0365	0.0000	523.1224	523.1224	0.0100	9.5900e-003	526.2311

**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					
General Office Building	9.80294e+006	0.0529	0.4805	0.4037	2.8800e-003		0.0365	0.0365		0.0365	0.0365	0.0000	523.1224	523.1224	0.0100	9.5900e-003	526.2311
<b>Total</b>		<b>0.0529</b>	<b>0.4805</b>	<b>0.4037</b>	<b>2.8800e-003</b>		<b>0.0365</b>	<b>0.0365</b>		<b>0.0365</b>	<b>0.0365</b>	<b>0.0000</b>	<b>523.1224</b>	<b>523.1224</b>	<b>0.0100</b>	<b>9.5900e-003</b>	<b>526.2311</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - 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					
General Office Building	9.80294e+006	0.0529	0.4805	0.4037	2.8800e-003		0.0365	0.0365		0.0365	0.0365	0.0000	523.1224	523.1224	0.0100	9.5900e-003	526.2311
<b>Total</b>		<b>0.0529</b>	<b>0.4805</b>	<b>0.4037</b>	<b>2.8800e-003</b>		<b>0.0365</b>	<b>0.0365</b>		<b>0.0365</b>	<b>0.0365</b>	<b>0.0000</b>	<b>523.1224</b>	<b>523.1224</b>	<b>0.0100</b>	<b>9.5900e-003</b>	<b>526.2311</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.20094e+007	6,688.7707	0.1580	0.0327	6,702.4599
<b>Total</b>		<b>6,688.7707</b>	<b>0.1580</b>	<b>0.0327</b>	<b>6,702.4599</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - 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			
General Office Building	1.20094e+007	6,688.7707	0.1580	0.0327	6,702.4599
<b>Total</b>		<b>6,688.7707</b>	<b>0.1580</b>	<b>0.0327</b>	<b>6,702.4599</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	3.2138	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209
Unmitigated	3.2138	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209



T2T3 2016 Baseline Scenario (2005 Title 24) - 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	0.3653					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8475					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209
<b>Total</b>	<b>3.2138</b>	<b>1.0000e-004</b>	<b>0.0103</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0196</b>	<b>0.0196</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0209</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	tons/yr										MT/yr					
Architectural Coating	0.3653					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8475					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0196	0.0196	6.0000e-005	0.0000	0.0209
<b>Total</b>	<b>3.2138</b>	<b>1.0000e-004</b>	<b>0.0103</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0196</b>	<b>0.0196</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0209</b>

**7.0 Water Detail**

T2T3 2016 Baseline Scenario (2005 Title 24) - Los Angeles-South Coast County, Annual

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,591.356 2	4.6004	0.1153	1,740.731 3
Unmitigated	1,591.356 2	4.6004	0.1153	1,740.731 3

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	140.06 / 85.8429	1,591.356 2	4.6004	0.1153	1,740.731 3
<b>Total</b>		<b>1,591.356 2</b>	<b>4.6004</b>	<b>0.1153</b>	<b>1,740.731 3</b>

T2T3 2016 Baseline Scenario (2005 Title 24) - 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			
General Office Building	140.06 / 85.8429	1,591.356 2	4.6004	0.1153	1,740.731 3
<b>Total</b>		<b>1,591.356 2</b>	<b>4.6004</b>	<b>0.1153</b>	<b>1,740.731 3</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	148.7660	8.7918	0.0000	368.5614
Unmitigated	148.7660	8.7918	0.0000	368.5614

T2T3 2016 Baseline Scenario (2005 Title 24) - 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			
General Office Building	732.87	148.7660	8.7918	0.0000	368.5614
<b>Total</b>		<b>148.7660</b>	<b>8.7918</b>	<b>0.0000</b>	<b>368.5614</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	732.87	148.7660	8.7918	0.0000	368.5614
<b>Total</b>		<b>148.7660</b>	<b>8.7918</b>	<b>0.0000</b>	<b>368.5614</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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T2T3 2016 Baseline Scenario (2005 Title 24) - 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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LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**LAX T2T3 2023 LEED Scenario**  
**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
General Office Building	1,620.01	1000sqft	33.92	1,620,010.00	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>	11			<b>Operational Year</b>	2023
<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**

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Lot acreage from T2T3 IS/NOP page 3.

Unit Amount (size of existing structure) based on T2T3 IS/NOP page 6.

Construction Phase -

Demolition -

Area Mitigation -

Energy Mitigation - <https://energy.gov/energysaver/led-lighting> - 75% reduction in energy due to LEDs, assume 50% implementation of LEDs following LED mitigation measures.

Water Mitigation - Outdoor reductions in line with LEED WEC1 requirement.

Indoor reductions in line with LEED WEC3 requirement.

Waste Mitigation - Not quantified despite existence of program. No quantifiable data available.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	100.00
tblLandUse	LotAcreage	37.19	33.92
tblProjectCharacteristics	OperationalYear	2018	2023

**2.0 Emissions Summary**

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LAX T2T3 2023 LEED Scenario - 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					
2021	0.5801	5.7040	4.7112	0.0147	1.1275	0.1763	1.3038	0.3633	0.1642	0.5274	0.0000	1,351.6812	1,351.6812	0.1575	0.0000	1,355.6176
2022	0.5616	5.1658	5.0662	0.0179	0.8720	0.1161	0.9881	0.2362	0.1092	0.3454	0.0000	1,656.6196	1,656.6196	0.1342	0.0000	1,659.9756
2023	17.2961	1.4209	1.7137	5.6000e-003	0.2693	0.0385	0.3077	0.0728	0.0360	0.1089	0.0000	515.7799	515.7799	0.0482	0.0000	516.9836
<b>Maximum</b>	<b>17.2961</b>	<b>5.7040</b>	<b>5.0662</b>	<b>0.0179</b>	<b>1.1275</b>	<b>0.1763</b>	<b>1.3038</b>	<b>0.3633</b>	<b>0.1642</b>	<b>0.5274</b>	<b>0.0000</b>	<b>1,656.6196</b>	<b>1,656.6196</b>	<b>0.1575</b>	<b>0.0000</b>	<b>1,659.9756</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					
2021	0.5801	5.7040	4.7112	0.0147	1.1275	0.1763	1.3038	0.3633	0.1642	0.5274	0.0000	1,351.6807	1,351.6807	0.1575	0.0000	1,355.6171
2022	0.5616	5.1658	5.0662	0.0179	0.8720	0.1161	0.9881	0.2362	0.1092	0.3454	0.0000	1,656.6192	1,656.6192	0.1342	0.0000	1,659.9752
2023	17.2961	1.4209	1.7137	5.6000e-003	0.2693	0.0385	0.3077	0.0728	0.0360	0.1089	0.0000	515.7797	515.7797	0.0482	0.0000	516.9835
<b>Maximum</b>	<b>17.2961</b>	<b>5.7040</b>	<b>5.0662</b>	<b>0.0179</b>	<b>1.1275</b>	<b>0.1763</b>	<b>1.3038</b>	<b>0.3633</b>	<b>0.1642</b>	<b>0.5274</b>	<b>0.0000</b>	<b>1,656.6192</b>	<b>1,656.6192</b>	<b>0.1575</b>	<b>0.0000</b>	<b>1,659.9752</b>



## LAX T2T3 2023 LEED Scenario - 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
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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	1.5512	1.5512
2	4-1-2021	6-30-2021	1.5846	1.5846
3	7-1-2021	9-30-2021	1.5438	1.5438
4	10-1-2021	12-31-2021	1.5558	1.5558
5	1-1-2022	3-31-2022	1.4092	1.4092
6	4-1-2022	6-30-2022	1.4142	1.4142
7	7-1-2022	9-30-2022	1.4298	1.4298
8	10-1-2022	12-31-2022	1.4405	1.4405
9	1-1-2023	3-31-2023	1.1774	1.1774
10	4-1-2023	6-30-2023	10.5226	10.5226
11	7-1-2023	9-30-2023	7.0040	7.0040
		Highest	10.5226	10.5226

LAX T2T3 2023 LEED Scenario - 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	6.5408	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0402	0.0402	1.1000e-004	0.0000	0.0428
Energy	0.0914	0.8307	0.6978	4.9800e-003		0.0631	0.0631		0.0631	0.0631	0.0000	12,922.6790	12,922.6790	0.3012	0.0753	12,952.6495
Mobile	3.7543	17.0522	51.4709	0.1948	16.5986	0.1477	16.7463	4.4491	0.1374	4.5865	0.0000	18,003.6472	18,003.6472	0.8841	0.0000	18,025.7506
Waste						0.0000	0.0000		0.0000	0.0000	278.9705	0.0000	278.9705	16.4867	0.0000	691.1376
Water						0.0000	0.0000		0.0000	0.0000	83.3249	2,900.8389	2,984.1639	8.6268	0.2163	3,264.2770
<b>Total</b>	<b>10.3865</b>	<b>17.8830</b>	<b>52.1893</b>	<b>0.1997</b>	<b>16.5986</b>	<b>0.2109</b>	<b>16.8095</b>	<b>4.4491</b>	<b>0.2006</b>	<b>4.6497</b>	<b>362.2954</b>	<b>33,827.2053</b>	<b>34,189.5006</b>	<b>26.2989</b>	<b>0.2916</b>	<b>34,933.8575</b>

LAX T2T3 2023 LEED Scenario - 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	6.5397	1.0000e-004	0.0120	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0217	0.0217	4.0000e-005	0.0000	0.0228
Energy	0.0782	0.7107	0.5970	4.2600e-003		0.0540	0.0540		0.0540	0.0540	0.0000	10,826.9235	10,826.9235	0.2523	0.0633	10,852.0960
Mobile	3.7543	17.0522	51.4709	0.1948	16.5986	0.1477	16.7463	4.4491	0.1374	4.5865	0.0000	18,003.6472	18,003.6472	0.8841	0.0000	18,025.7506
Waste						0.0000	0.0000		0.0000	0.0000	278.9705	0.0000	278.9705	16.4867	0.0000	691.1376
Water						0.0000	0.0000		0.0000	0.0000	54.1612	1,736.1316	1,790.2928	5.6039	0.1398	1,972.0606
<b>Total</b>	<b>10.3722</b>	<b>17.7630</b>	<b>52.0799</b>	<b>0.1990</b>	<b>16.5986</b>	<b>0.2017</b>	<b>16.8003</b>	<b>4.4491</b>	<b>0.1914</b>	<b>4.6405</b>	<b>333.1317</b>	<b>30,566.7239</b>	<b>30,899.8556</b>	<b>23.2270</b>	<b>0.2031</b>	<b>31,541.0676</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>0.14</b>	<b>0.67</b>	<b>0.21</b>	<b>0.36</b>	<b>0.00</b>	<b>4.34</b>	<b>0.05</b>	<b>0.00</b>	<b>4.57</b>	<b>0.20</b>	<b>8.05</b>	<b>9.64</b>	<b>9.62</b>	<b>11.68</b>	<b>30.33</b>	<b>9.71</b>

**3.0 Construction Detail**

**Construction Phase**

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	2/11/2021	5	30	
2	Site Preparation	Site Preparation	2/12/2021	3/11/2021	5	20	
3	Grading	Grading	3/12/2021	5/13/2021	5	45	
4	Building Construction	Building Construction	5/14/2021	4/13/2023	5	500	
5	Paving	Paving	4/14/2023	6/1/2023	5	35	
6	Architectural Coating	Architectural Coating	6/2/2023	7/20/2023	5	35	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,216,618; Non-Residential Outdoor: 738,873; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, 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
Demolition	6	15.00	0.00	1,589.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	473.00	242.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	95.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 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					
Fugitive Dust					0.1720	0.0000	0.1720	0.0260	0.0000	0.0260	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.1720</b>	<b>0.0233</b>	<b>0.1953</b>	<b>0.0260</b>	<b>0.0216</b>	<b>0.0477</b>	<b>0.0000</b>	<b>51.0012</b>	<b>51.0012</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3601</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.2 Demolition - 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	6.6900e-003	0.2199	0.0513	6.2000e-004	0.0137	6.6000e-004	0.0143	3.7500e-003	6.3000e-004	4.3800e-003	0.0000	60.5644	60.5644	4.2000e-003	0.0000	60.6695
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	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
<b>Total</b>	<b>7.6600e-003</b>	<b>0.2207</b>	<b>0.0598</b>	<b>6.4000e-004</b>	<b>0.0161</b>	<b>6.8000e-004</b>	<b>0.0168</b>	<b>4.4000e-003</b>	<b>6.5000e-004</b>	<b>5.0500e-003</b>	<b>0.0000</b>	<b>62.7895</b>	<b>62.7895</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>62.8962</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					0.1720	0.0000	0.1720	0.0260	0.0000	0.0260	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.1720</b>	<b>0.0233</b>	<b>0.1953</b>	<b>0.0260</b>	<b>0.0216</b>	<b>0.0477</b>	<b>0.0000</b>	<b>51.0011</b>	<b>51.0011</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3600</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.2 Demolition - 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	6.6900e-003	0.2199	0.0513	6.2000e-004	0.0137	6.6000e-004	0.0143	3.7500e-003	6.3000e-004	4.3800e-003	0.0000	60.5644	60.5644	4.2000e-003	0.0000	60.6695
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	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
<b>Total</b>	<b>7.6600e-003</b>	<b>0.2207</b>	<b>0.0598</b>	<b>6.4000e-004</b>	<b>0.0161</b>	<b>6.8000e-004</b>	<b>0.0168</b>	<b>4.4000e-003</b>	<b>6.5000e-004</b>	<b>5.0500e-003</b>	<b>0.0000</b>	<b>62.7895</b>	<b>62.7895</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>62.8962</b>

**3.3 Site Preparation - 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					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0204</b>	<b>0.2011</b>	<b>0.0993</b>	<b>0.0188</b>	<b>0.1181</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7061</b>



LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.3 Site Preparation - 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	0.0000	0.0000	0.0000	0.0000	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	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
<b>Total</b>	<b>7.7000e-004</b>	<b>6.0000e-004</b>	<b>6.8100e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7801</b>	<b>1.7801</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7814</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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0204</b>	<b>0.2011</b>	<b>0.0993</b>	<b>0.0188</b>	<b>0.1181</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7060</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.3 Site Preparation - 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	0.0000	0.0000	0.0000	0.0000	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	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
<b>Total</b>	<b>7.7000e-004</b>	<b>6.0000e-004</b>	<b>6.8100e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7801</b>	<b>1.7801</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7814</b>

**3.4 Grading - 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					
Fugitive Dust					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0943	1.0440	0.6948	1.4000e-003		0.0447	0.0447		0.0411	0.0411	0.0000	122.6137	122.6137	0.0397	0.0000	123.6051
<b>Total</b>	<b>0.0943</b>	<b>1.0440</b>	<b>0.6948</b>	<b>1.4000e-003</b>	<b>0.1952</b>	<b>0.0447</b>	<b>0.2398</b>	<b>0.0809</b>	<b>0.0411</b>	<b>0.1220</b>	<b>0.0000</b>	<b>122.6137</b>	<b>122.6137</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.6051</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.4 Grading - 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	0.0000	0.0000	0.0000	0.0000	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	1.9400e-003	1.5100e-003	0.0170	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.4501	4.4501	1.3000e-004	0.0000	4.4534
<b>Total</b>	<b>1.9400e-003</b>	<b>1.5100e-003</b>	<b>0.0170</b>	<b>5.0000e-005</b>	<b>4.9300e-003</b>	<b>4.0000e-005</b>	<b>4.9700e-003</b>	<b>1.3100e-003</b>	<b>4.0000e-005</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>4.4501</b>	<b>4.4501</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>4.4534</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					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0943	1.0440	0.6948	1.4000e-003		0.0447	0.0447		0.0411	0.0411	0.0000	122.6136	122.6136	0.0397	0.0000	123.6050
<b>Total</b>	<b>0.0943</b>	<b>1.0440</b>	<b>0.6948</b>	<b>1.4000e-003</b>	<b>0.1952</b>	<b>0.0447</b>	<b>0.2398</b>	<b>0.0809</b>	<b>0.0411</b>	<b>0.1220</b>	<b>0.0000</b>	<b>122.6136</b>	<b>122.6136</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.6050</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.4 Grading - 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	0.0000	0.0000	0.0000	0.0000	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	1.9400e-003	1.5100e-003	0.0170	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.4501	4.4501	1.3000e-004	0.0000	4.4534
<b>Total</b>	<b>1.9400e-003</b>	<b>1.5100e-003</b>	<b>0.0170</b>	<b>5.0000e-005</b>	<b>4.9300e-003</b>	<b>4.0000e-005</b>	<b>4.9700e-003</b>	<b>1.3100e-003</b>	<b>4.0000e-005</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>4.4501</b>	<b>4.4501</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>4.4534</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1578	1.4469	1.3757	2.2300e-003		0.0796	0.0796		0.0748	0.0748	0.0000	192.2589	192.2589	0.0464	0.0000	193.4185
<b>Total</b>	<b>0.1578</b>	<b>1.4469</b>	<b>1.3757</b>	<b>2.2300e-003</b>		<b>0.0796</b>	<b>0.0796</b>		<b>0.0748</b>	<b>0.0748</b>	<b>0.0000</b>	<b>192.2589</b>	<b>192.2589</b>	<b>0.0464</b>	<b>0.0000</b>	<b>193.4185</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 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	0.0624	1.9823	0.5374	5.1100e-003	0.1265	4.0400e-003	0.1306	0.0365	3.8600e-003	0.0404	0.0000	495.1130	495.1130	0.0304	0.0000	495.8723
Worker	0.1689	0.1315	1.4846	4.3000e-003	0.4302	3.5500e-003	0.4338	0.1143	3.2700e-003	0.1175	0.0000	388.2389	388.2389	0.0114	0.0000	388.5246
<b>Total</b>	<b>0.2313</b>	<b>2.1138</b>	<b>2.0220</b>	<b>9.4100e-003</b>	<b>0.5567</b>	<b>7.5900e-003</b>	<b>0.5643</b>	<b>0.1508</b>	<b>7.1300e-003</b>	<b>0.1579</b>	<b>0.0000</b>	<b>883.3520</b>	<b>883.3520</b>	<b>0.0418</b>	<b>0.0000</b>	<b>884.3968</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	0.1578	1.4469	1.3757	2.2300e-003		0.0796	0.0796		0.0748	0.0748	0.0000	192.2587	192.2587	0.0464	0.0000	193.4183
<b>Total</b>	<b>0.1578</b>	<b>1.4469</b>	<b>1.3757</b>	<b>2.2300e-003</b>		<b>0.0796</b>	<b>0.0796</b>		<b>0.0748</b>	<b>0.0748</b>	<b>0.0000</b>	<b>192.2587</b>	<b>192.2587</b>	<b>0.0464</b>	<b>0.0000</b>	<b>193.4183</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 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	0.0624	1.9823	0.5374	5.1100e-003	0.1265	4.0400e-003	0.1306	0.0365	3.8600e-003	0.0404	0.0000	495.1130	495.1130	0.0304	0.0000	495.8723
Worker	0.1689	0.1315	1.4846	4.3000e-003	0.4302	3.5500e-003	0.4338	0.1143	3.2700e-003	0.1175	0.0000	388.2389	388.2389	0.0114	0.0000	388.5246
<b>Total</b>	<b>0.2313</b>	<b>2.1138</b>	<b>2.0220</b>	<b>9.4100e-003</b>	<b>0.5567</b>	<b>7.5900e-003</b>	<b>0.5643</b>	<b>0.1508</b>	<b>7.1300e-003</b>	<b>0.1579</b>	<b>0.0000</b>	<b>883.3520</b>	<b>883.3520</b>	<b>0.0418</b>	<b>0.0000</b>	<b>884.3968</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2428</b>	<b>301.2428</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0471</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 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	0.0917	2.9497	0.7965	7.9200e-003	0.1982	5.5400e-003	0.2037	0.0572	5.2900e-003	0.0625	0.0000	768.6670	768.6670	0.0459	0.0000	769.8148
Worker	0.2481	0.1861	2.1425	6.4900e-003	0.6738	5.3800e-003	0.6792	0.1790	4.9600e-003	0.1839	0.0000	586.7098	586.7098	0.0162	0.0000	587.1137
<b>Total</b>	<b>0.3398</b>	<b>3.1358</b>	<b>2.9390</b>	<b>0.0144</b>	<b>0.8720</b>	<b>0.0109</b>	<b>0.8829</b>	<b>0.2362</b>	<b>0.0103</b>	<b>0.2464</b>	<b>0.0000</b>	<b>1,355.3768</b>	<b>1,355.3768</b>	<b>0.0621</b>	<b>0.0000</b>	<b>1,356.9285</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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2425</b>	<b>301.2425</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0467</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 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	0.0917	2.9497	0.7965	7.9200e-003	0.1982	5.5400e-003	0.2037	0.0572	5.2900e-003	0.0625	0.0000	768.6670	768.6670	0.0459	0.0000	769.8148
Worker	0.2481	0.1861	2.1425	6.4900e-003	0.6738	5.3800e-003	0.6792	0.1790	4.9600e-003	0.1839	0.0000	586.7098	586.7098	0.0162	0.0000	587.1137
<b>Total</b>	<b>0.3398</b>	<b>3.1358</b>	<b>2.9390</b>	<b>0.0144</b>	<b>0.8720</b>	<b>0.0109</b>	<b>0.8829</b>	<b>0.2362</b>	<b>0.0103</b>	<b>0.2464</b>	<b>0.0000</b>	<b>1,355.3768</b>	<b>1,355.3768</b>	<b>0.0621</b>	<b>0.0000</b>	<b>1,356.9285</b>

**3.5 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	0.0582	0.5322	0.6010	1.0000e-003		0.0259	0.0259		0.0244	0.0244	0.0000	85.7678	85.7678	0.0204	0.0000	86.2778
<b>Total</b>	<b>0.0582</b>	<b>0.5322</b>	<b>0.6010</b>	<b>1.0000e-003</b>		<b>0.0259</b>	<b>0.0259</b>		<b>0.0244</b>	<b>0.0244</b>	<b>0.0000</b>	<b>85.7678</b>	<b>85.7678</b>	<b>0.0204</b>	<b>0.0000</b>	<b>86.2778</b>



LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.5 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	0.0194	0.6343	0.2034	2.1800e-003	0.0564	7.4000e-004	0.0571	0.0163	7.1000e-004	0.0170	0.0000	211.9255	211.9255	0.0116	0.0000	212.2141
Worker	0.0664	0.0479	0.5607	1.7800e-003	0.1918	1.4900e-003	0.1933	0.0509	1.3700e-003	0.0523	0.0000	160.8761	160.8761	4.1400e-003	0.0000	160.9796
<b>Total</b>	<b>0.0858</b>	<b>0.6822</b>	<b>0.7641</b>	<b>3.9600e-003</b>	<b>0.2482</b>	<b>2.2300e-003</b>	<b>0.2504</b>	<b>0.0672</b>	<b>2.0800e-003</b>	<b>0.0693</b>	<b>0.0000</b>	<b>372.8016</b>	<b>372.8016</b>	<b>0.0157</b>	<b>0.0000</b>	<b>373.1938</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	0.0582	0.5322	0.6010	1.0000e-003		0.0259	0.0259		0.0244	0.0244	0.0000	85.7677	85.7677	0.0204	0.0000	86.2777
<b>Total</b>	<b>0.0582</b>	<b>0.5322</b>	<b>0.6010</b>	<b>1.0000e-003</b>		<b>0.0259</b>	<b>0.0259</b>		<b>0.0244</b>	<b>0.0244</b>	<b>0.0000</b>	<b>85.7677</b>	<b>85.7677</b>	<b>0.0204</b>	<b>0.0000</b>	<b>86.2777</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.5 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	0.0194	0.6343	0.2034	2.1800e-003	0.0564	7.4000e-004	0.0571	0.0163	7.1000e-004	0.0170	0.0000	211.9255	211.9255	0.0116	0.0000	212.2141
Worker	0.0664	0.0479	0.5607	1.7800e-003	0.1918	1.4900e-003	0.1933	0.0509	1.3700e-003	0.0523	0.0000	160.8761	160.8761	4.1400e-003	0.0000	160.9796
<b>Total</b>	<b>0.0858</b>	<b>0.6822</b>	<b>0.7641</b>	<b>3.9600e-003</b>	<b>0.2482</b>	<b>2.2300e-003</b>	<b>0.2504</b>	<b>0.0672</b>	<b>2.0800e-003</b>	<b>0.0693</b>	<b>0.0000</b>	<b>372.8016</b>	<b>372.8016</b>	<b>0.0157</b>	<b>0.0000</b>	<b>373.1938</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
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>0.0181</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.6 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	1.0000e-003	7.2000e-004	8.4100e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4130	2.4130	6.0000e-005	0.0000	2.4146
<b>Total</b>	<b>1.0000e-003</b>	<b>7.2000e-004</b>	<b>8.4100e-003</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>2.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.4130</b>	<b>2.4130</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4146</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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
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>0.0181</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.6 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	1.0000e-003	7.2000e-004	8.4100e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4130	2.4130	6.0000e-005	0.0000	2.4146
<b>Total</b>	<b>1.0000e-003</b>	<b>7.2000e-004</b>	<b>8.4100e-003</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>2.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.4130</b>	<b>2.4130</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4146</b>

**3.7 Architectural Coating - 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					
Archit. Coating	17.1234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0228	0.0317	5.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749
<b>Total</b>	<b>17.1267</b>	<b>0.0228</b>	<b>0.0317</b>	<b>5.0000e-005</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>4.4749</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 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	6.3100e-003	4.5500e-003	0.0533	1.7000e-004	0.0182	1.4000e-004	0.0184	4.8400e-003	1.3000e-004	4.9700e-003	0.0000	15.2824	15.2824	3.9000e-004	0.0000	15.2922
<b>Total</b>	<b>6.3100e-003</b>	<b>4.5500e-003</b>	<b>0.0533</b>	<b>1.7000e-004</b>	<b>0.0182</b>	<b>1.4000e-004</b>	<b>0.0184</b>	<b>4.8400e-003</b>	<b>1.3000e-004</b>	<b>4.9700e-003</b>	<b>0.0000</b>	<b>15.2824</b>	<b>15.2824</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>15.2922</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	17.1234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0228	0.0317	5.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749
<b>Total</b>	<b>17.1267</b>	<b>0.0228</b>	<b>0.0317</b>	<b>5.0000e-005</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>4.4749</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 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	6.3100e-003	4.5500e-003	0.0533	1.7000e-004	0.0182	1.4000e-004	0.0184	4.8400e-003	1.3000e-004	4.9700e-003	0.0000	15.2824	15.2824	3.9000e-004	0.0000	15.2922
<b>Total</b>	<b>6.3100e-003</b>	<b>4.5500e-003</b>	<b>0.0533</b>	<b>1.7000e-004</b>	<b>0.0182</b>	<b>1.4000e-004</b>	<b>0.0184</b>	<b>4.8400e-003</b>	<b>1.3000e-004</b>	<b>4.9700e-003</b>	<b>0.0000</b>	<b>15.2824</b>	<b>15.2824</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>15.2922</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

LAX T2T3 2023 LEED Scenario - 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	3.7543	17.0522	51.4709	0.1948	16.5986	0.1477	16.7463	4.4491	0.1374	4.5865	0.0000	18,003.6472	18,003.6472	0.8841	0.0000	18,025.7506
Unmitigated	3.7543	17.0522	51.4709	0.1948	16.5986	0.1477	16.7463	4.4491	0.1374	4.5865	0.0000	18,003.6472	18,003.6472	0.8841	0.0000	18,025.7506

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	17,868.71	3,985.22	1,701.01	43,733,536	43,733,536
Total	17,868.71	3,985.22	1,701.01	43,733,536	43,733,536

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

	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	10,053.2401	10,053.2401	0.2374	0.0491	10,073.8150
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12,018.4130	12,018.4130	0.2839	0.0587	12,043.0099
NaturalGas Mitigated	0.0782	0.7107	0.5970	4.2600e-003		0.0540	0.0540		0.0540	0.0540	0.0000	773.6834	773.6834	0.0148	0.0142	778.2810
NaturalGas Unmitigated	0.0914	0.8307	0.6978	4.9800e-003		0.0631	0.0631		0.0631	0.0631	0.0000	904.2660	904.2660	0.0173	0.0166	909.6396



LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, 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					
General Office Building	1.69453e+007	0.0914	0.8307	0.6978	4.9800e-003		0.0631	0.0631		0.0631	0.0631	0.0000	904.2660	904.2660	0.0173	0.0166	909.6396
<b>Total</b>		<b>0.0914</b>	<b>0.8307</b>	<b>0.6978</b>	<b>4.9800e-003</b>		<b>0.0631</b>	<b>0.0631</b>		<b>0.0631</b>	<b>0.0631</b>	<b>0.0000</b>	<b>904.2660</b>	<b>904.2660</b>	<b>0.0173</b>	<b>0.0166</b>	<b>909.6396</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.44983e+007	0.0782	0.7107	0.5970	4.2600e-003		0.0540	0.0540		0.0540	0.0540	0.0000	773.6834	773.6834	0.0148	0.0142	778.2810
<b>Total</b>		<b>0.0782</b>	<b>0.7107</b>	<b>0.5970</b>	<b>4.2600e-003</b>		<b>0.0540</b>	<b>0.0540</b>		<b>0.0540</b>	<b>0.0540</b>	<b>0.0000</b>	<b>773.6834</b>	<b>773.6834</b>	<b>0.0148</b>	<b>0.0142</b>	<b>778.2810</b>

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	2.15785e+007	12,018.4130	0.2839	0.0587	12,043.0099
<b>Total</b>		<b>12,018.4130</b>	<b>0.2839</b>	<b>0.0587</b>	<b>12,043.0099</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.80502e+007	10,053.2401	0.2374	0.0491	10,073.8150
<b>Total</b>		<b>10,053.2401</b>	<b>0.2374</b>	<b>0.0491</b>	<b>10,073.8150</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

	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	6.5397	1.0000e-004	0.0120	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0217	0.0217	4.0000e-005	0.0000	0.0228
Unmitigated	6.5408	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0402	0.0402	1.1000e-004	0.0000	0.0428

LAX T2T3 2023 LEED Scenario - 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	0.6849					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.8539					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9100e-003	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0402	0.0402	1.1000e-004	0.0000	0.0428
<b>Total</b>	<b>6.5408</b>	<b>1.9000e-004</b>	<b>0.0207</b>	<b>0.0000</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0402</b>	<b>0.0402</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.0428</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	tons/yr										MT/yr					
Architectural Coating	0.6849					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.8539					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1000e-004	1.0000e-004	0.0120	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0217	0.0217	4.0000e-005	0.0000	0.0228
<b>Total</b>	<b>6.5397</b>	<b>1.0000e-004</b>	<b>0.0120</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0217</b>	<b>0.0217</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0228</b>

**7.0 Water Detail**

LAX T2T3 2023 LEED Scenario - Los Angeles-South Coast County, Annual

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,790.2928	5.6039	0.1398	1,972.0606
Unmitigated	2,984.1639	8.6268	0.2163	3,264.2770

### 7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	262.644 / 160.976	2,984.1639	8.6268	0.2163	3,264.2770
<b>Total</b>		<b>2,984.1639</b>	<b>8.6268</b>	<b>0.2163</b>	<b>3,264.2770</b>

LAX T2T3 2023 LEED Scenario - 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			
General Office Building	170.719 / 80.4878	1,790.2928	5.6039	0.1398	1,972.0606
<b>Total</b>		<b>1,790.2928</b>	<b>5.6039</b>	<b>0.1398</b>	<b>1,972.0606</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	278.9705	16.4867	0.0000	691.1376
Unmitigated	278.9705	16.4867	0.0000	691.1376

LAX T2T3 2023 LEED Scenario - 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			
General Office Building	1374.3	278.9705	16.4867	0.0000	691.1376
<b>Total</b>		<b>278.9705</b>	<b>16.4867</b>	<b>0.0000</b>	<b>691.1376</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1374.3	278.9705	16.4867	0.0000	691.1376
<b>Total</b>		<b>278.9705</b>	<b>16.4867</b>	<b>0.0000</b>	<b>691.1376</b>

**9.0 Operational Offroad**

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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