Appendix B
Air Quality and Greenhouse Gas Calculations

Air Quality and Greenhouse Gas Calculations

- **CalEEMod Model Outputs**
- **Carbon Monoxide Hot-Spot Modeling**
- **Annual Emissions Report and Scaling for Buildout**
- **Health Risk Assessment Scaling**
- **Ambient Background Information**

CalEEMod Model Outputs

LAC + USC Medical Center Master Plan - Existing

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	197.29	1000sqft	4.53	197,288.00	0
Research & Development	457.73	1000sqft	10.51	457,727.00	0
General Heavy Industry	31.00	1000sqft	0.71	31,000.00	0
Unrefrigerated Warehouse-No Rail	20.94	1000sqft	0.48	20,938.00	0
Unrefrigerated Warehouse-Rail	15.76	1000sqft	0.36	15,760.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2014
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1094	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 emission factor based on year 2012 (https://data.lacity.org/A-Livable-and-Sustainable-City/LADWP-CO2-Generation/e5ni-eqan#column-menu).

Land Use - CalEEMod land uses assigned based on land uses in Table 5 of TIA. Default caleemod acreage assumed based on known square footage.

Construction Phase - No construction

Off-road Equipment -

Off-road Equipment - No construction for existing uses

Vehicle Trips - trip rates from TIA after accounting for reductions from internal trips and transit credit. No pass-by reductions for existing uses, so default Caleemod trip purposes assumed.

Consumer Products - default consumer product ROG rate

Area Coating - default coating re-application rate and VOC content (250 g/L)

Energy Use - default elect and NG use

Water And Wastewater - default water consumption

Solid Waste - default waste consumption

Land Use Change - no existing vegetation assumed as it's a built site

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LandUseSquareFeet	197,290.00	197,288.00
tblLandUse	LandUseSquareFeet	457,730.00	457,727.00
tblLandUse	LandUseSquareFeet	20,940.00	20,938.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1094
tblVehicleTrips	ST_TR	1.50	1.10
tblVehicleTrips	ST_TR	2.37	7.97
tblVehicleTrips	ST_TR	1.90	26.10
tblVehicleTrips	ST_TR	2.59	2.28
tblVehicleTrips	ST_TR	1.63	2.57
tblVehicleTrips	SU_TR	1.50	1.10
tblVehicleTrips	SU_TR	0.98	7.97
tblVehicleTrips	SU_TR	1.11	26.10
tblVehicleTrips	SU_TR	2.59	2.28
tblVehicleTrips	SU_TR	1.63	2.57
tblVehicleTrips	WD_TR	1.50	1.10
tblVehicleTrips	WD_TR	11.01	7.97
tblVehicleTrips	WD_TR	8.11	26.10
tblVehicleTrips	WD_TR	2.59	2.28
tblVehicleTrips	WD_TR	1.63	2.57

2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0191
Energy											0.0000	5,031.6918	5,031.6918	0.1289	0.0354	5,045.3735
Mobile											0.0000	21,825.8901	21,825.8901	1.0491	0.0000	21,847.9203
Waste											59.1089	0.0000	59.1089	3.4932	0.0000	132.4669
Water											87.4935	1,900.4377	1,987.9312	9.0368	0.2226	2,246.7135
Total											**146.6024**	**28,758.0376**	**28,904.6400**	**13.7081**	**0.2580**	**29,272.4933**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0191
Energy											0.0000	5,031.6918	5,031.6918	0.1289	0.0354	5,045.3735
Mobile											0.0000	21,825.8901	21,825.8901	1.0491	0.0000	21,847.9203
Waste											59.1089	0.0000	59.1089	3.4932	0.0000	132.4669
Water											87.4935	1,900.4377	1,987.9312	9.0352	0.2223	2,246.5739
Total											**146.6024**	**28,758.0376**	**28,904.6400**	**13.7064**	**0.2577**	**29,272.3537**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**	**0.01**	**0.13**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	12/31/2014	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	162	0.38
Demolition	Rubber Tired Dozers	0	0.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	21,825.8901	21,825.8901	1.0491	0.0000	21,847.9203
Unmitigated											0.0000	21,825.8901	21,825.8901	1.0491	0.0000	21,847.9203

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	34.10	34.10	34.10	151,004	151,004
General Office Building	1,572.40	1,572.40	1572.40	5,065,429	5,065,429
Research & Development	11,946.75	11,946.75	11946.75	40,363,906	40,363,906
Unrefrigerated Warehouse-No Rail	47.74	47.74	47.74	204,614	204,614
Unrefrigerated Warehouse-Rail	40.50	40.50	40.50	173,585	173,585
Total	13,641.50	13,641.50	13,641.50	45,958,539	45,958,539

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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 Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.535275	0.058759	0.178478	0.127034	0.038632	0.006246	0.015618	0.028471	0.002426	0.003171	0.003696	0.000547	0.001645

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

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					
NaturalGas Mitigated											0.0000	607.4246	607.4246	0.0116	0.0111	611.1213
NaturalGas Unmitigated											0.0000	607.4246	607.4246	0.0116	0.0111	611.1213
Electricity Mitigated											0.0000	4,424.2672	4,424.2672	0.1173	0.0243	4,434.2521
Electricity Unmitigated											0.0000	4,424.2672	4,424.2672	0.1173	0.0243	4,434.2521

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 Heavy Industry	583110											0.0000	31.1170	31.1170	6.0000e-004	5.7000e-004	31.3063
General Office Building	2.15636e+006											0.0000	115.0715	115.0715	2.2100e-003	2.1100e-003	115.7718
Research & Development	8.60984e+006											0.0000	459.4541	459.4541	8.8100e-003	8.4200e-003	462.2503
Unrefrigerated Warehouse-No Rail	19053.6											0.0000	1.0168	1.0168	2.0000e-005	2.0000e-005	1.0230
Unrefrigerated Warehouse-Rail	14341.6											0.0000	0.7653	0.7653	1.0000e-005	1.0000e-005	0.7700
Total												**0.0000**	**607.4246**	**607.4246**	**0.0117**	**0.0111**	**611.1213**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	583110											0.0000	31.1170	31.1170	6.0000e-004	5.7000e-004	31.3063
General Office Building	2.15636e+006											0.0000	115.0715	115.0715	2.2100e-003	2.1100e-003	115.7718
Research & Development	8.60984e+006											0.0000	459.4541	459.4541	8.8100e-003	8.4200e-003	462.2503
Unrefrigerated Warehouse-No Rail	19053.6											0.0000	1.0168	1.0168	2.0000e-005	2.0000e-005	1.0230
Unrefrigerated Warehouse-Rail	14341.6											0.0000	0.7653	0.7653	1.0000e-005	1.0000e-005	0.7700
Total												**0.0000**	**607.4246**	**607.4246**	**0.0117**	**0.0111**	**611.1213**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	373550	185.3667	4.9100e-003	1.0200e-003	185.7851
General Office Building	2.86659e+006	1,422.4904	0.0377	7.8000e-003	1,425.7008
Research & Development	5.51561e+006	2,737.0116	0.0726	0.0150	2,743.1887
Unrefrigerated Warehouse-No Rail	91289.7	45.3007	1.2000e-003	2.5000e-004	45.4029
Unrefrigerated Warehouse-Rail	68713.6	34.0978	9.0000e-004	1.9000e-004	34.1747
Total		**4,424.2672**	**0.1173**	**0.0243**	**4,434.2521**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	373550	185.3667	4.9100e-003	1.0200e-003	185.7851
General Office Building	2.86659e+006	1,422.4904	0.0377	7.8000e-003	1,425.7008
Research & Development	5.51561e+006	2,737.0116	0.0726	0.0150	2,743.1887
Unrefrigerated Warehouse-No Rail	91289.7	45.3007	1.2000e-003	2.5000e-004	45.4029
Unrefrigerated Warehouse-Rail	68713.6	34.0978	9.0000e-004	1.9000e-004	34.1747
Total		**4,424.2672**	**0.1173**	**0.0243**	**4,434.2521**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0191
Unmitigated											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0191

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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0191
Total											**0.0000**	**0.0179**	**0.0179**	**5.0000e-005**	**0.0000**	**0.0191**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0191
Total											**0.0000**	**0.0179**	**0.0179**	**5.0000e-005**	**0.0000**	**0.0191**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	1,987.9312	9.0368	0.2226	2,246.7135
Mitigated	1,987.9312	9.0352	0.2223	2,246.5739

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	7.16875 / 0	48.5946	0.2348	5.7700e-003	55.3144
General Office Building	35.0651 / 21.4915	356.1797	1.1517	0.0289	389.3165
Research & Development	225.063 / 0	1,525.6272	7.3722	0.1811	1,736.5975
Unrefrigerated Warehouse-No Rail	4.84237 / 0	32.8248	0.1586	3.9000e-003	37.3640
Unrefrigerated Warehouse-Rail	3.6445 / 0	24.7049	0.1194	2.9300e-003	28.1211
Total		**1,987.9312**	**9.0368**	**0.2226**	**2,246.7135**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	7.16875 / 0	48.5946	0.2348	5.7600e-003	55.3108
General Office Building	35.0651 / 21.4915	356.1797	1.1515	0.0288	389.2988
Research & Development	225.063 / 0	1,525.6272	7.3709	0.1809	1,736.4836
Unrefrigerated Warehouse-No Rail	4.84237 / 0	32.8248	0.1586	3.8900e-003	37.3616
Unrefrigerated Warehouse-Rail	3.6445 / 0	24.7049	0.1194	2.9300e-003	28.1193
Total		**1,987.9312**	**9.0352**	**0.2223**	**2,246.5739**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	59.1089	3.4932	0.0000	132.4669
Unmitigated	59.1089	3.4932	0.0000	132.4669

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	38.44	7.8030	0.4611	0.0000	17.4870
General Office Building	183.48	37.2448	2.2011	0.0000	83.4680
Research & Development	34.78	7.0600	0.4172	0.0000	15.8220
Unrefrigerated Warehouse-No Rail	19.68	3.9949	0.2361	0.0000	8.9527
Unrefrigerated Warehouse-Rail	14.81	3.0063	0.1777	0.0000	6.7373
Total		**59.1089**	**3.4932**	**0.0000**	**132.4669**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	38.44	7.8030	0.4611	0.0000	17.4870
General Office Building	183.48	37.2448	2.2011	0.0000	83.4680
Research & Development	34.78	7.0600	0.4172	0.0000	15.8220
Unrefrigerated Warehouse-No Rail	19.68	3.9949	0.2361	0.0000	8.9527
Unrefrigerated Warehouse-Rail	14.81	3.0063	0.1777	0.0000	6.7373
Total		**59.1089**	**3.4932**	**0.0000**	**132.4669**

9.0 Operational Offroad

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

10.0 Vegetation

LAC + USC Medical Center Master Plan - Existing

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	197.29	1000sqft	4.53	197,288.00	0
Research & Development	457.73	1000sqft	10.51	457,727.00	0
General Heavy Industry	31.00	1000sqft	0.71	31,000.00	0
Unrefrigerated Warehouse-No Rail	20.94	1000sqft	0.48	20,938.00	0
Unrefrigerated Warehouse-Rail	15.76	1000sqft	0.36	15,760.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2014
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.00617

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - CalEEMod land uses assigned based on land uses in Table 5 of TIA. Default caleemod acreage assumed based on known square footage.

Construction Phase - No construction

Off-road Equipment -

Off-road Equipment - No construction for existing uses

Vehicle Trips - trip rates from TIA after accounting for reductions from internal trips and transit credit. No pass-by reductions for existing uses, so default Caleemod trip purposes assumed.

Consumer Products - default consumer product ROG rate

Area Coating - default coating re-application rate and VOC content (250 g/L)

Energy Use - default elect and NG use

Water And Wastewater - default water consumption

Solid Waste - default waste consumption

Land Use Change - no existing vegetation assumed as it's a built site

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LandUseSquareFeet	197,290.00	197,288.00
tblLandUse	LandUseSquareFeet	457,730.00	457,727.00
tblLandUse	LandUseSquareFeet	20,940.00	20,938.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.00617
tblVehicleTrips	ST_TR	1.50	1.10
tblVehicleTrips	ST_TR	2.37	7.97
tblVehicleTrips	ST_TR	1.90	26.10
tblVehicleTrips	ST_TR	2.59	2.28
tblVehicleTrips	ST_TR	1.63	2.57
tblVehicleTrips	SU_TR	1.50	1.10
tblVehicleTrips	SU_TR	0.98	7.97
tblVehicleTrips	SU_TR	1.11	26.10
tblVehicleTrips	SU_TR	2.59	2.28
tblVehicleTrips	SU_TR	1.63	2.57
tblVehicleTrips	WD_TR	1.50	1.10
tblVehicleTrips	WD_TR	11.01	7.97
tblVehicleTrips	WD_TR	8.11	26.10
tblVehicleTrips	WD_TR	2.59	2.28
tblVehicleTrips	WD_TR	1.63	2.57

2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.9063	7.5000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1582	0.1582	4.7000e-004		0.1681
Energy	0.3363	3.0574	2.5682	0.0183		0.2324	0.2324		0.2324	0.2324		3,668.8825	3,668.8825	0.0703	0.0673	3,691.2107
Mobile	66.8596	192.8374	752.1849	1.4059	97.5139	2.9904	100.5043	26.0678	2.7451	28.8129		130,658.9530	130,658.9530	6.3635		130,792.5862
Total	**86.1022**	**195.8955**	**754.8303**	**1.4243**	**97.5139**	**3.2230**	**100.7370**	**26.0678**	**2.9777**	**29.0456**		**134,327.9937**	**134,327.9937**	**6.4343**	**0.0673**	**134,483.9650**

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	lb/day										lb/day					
Area	18.9063	7.5000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1582	0.1582	4.7000e-004		0.1681
Energy	0.3363	3.0574	2.5682	0.0183		0.2324	0.2324		0.2324	0.2324		3,668.8825	3,668.8825	0.0703	0.0673	3,691.2107
Mobile	66.8596	192.8374	752.1849	1.4059	97.5139	2.9904	100.5043	26.0678	2.7451	28.8129		130,658.9530	130,658.9530	6.3635		130,792.5862
Total	**86.1022**	**195.8955**	**754.8303**	**1.4243**	**97.5139**	**3.2230**	**100.7370**	**26.0678**	**2.9777**	**29.0456**		**134,327.9937**	**134,327.9937**	**6.4343**	**0.0673**	**134,483.9650**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	12/31/2014	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	162	0.38
Demolition	Rubber Tired Dozers	0	0.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	66.8596	192.8374	752.1849	1.4059	97.5139	2.9904	100.5043	26.0678	2.7451	28.8129		130,658.9530	130,658.9530	6.3635		130,792.5862
Mitigated	66.8596	192.8374	752.1849	1.4059	97.5139	2.9904	100.5043	26.0678	2.7451	28.8129		130,658.9530	130,658.9530	6.3635		130,792.5862

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	34.10	34.10	34.10	151,004	151,004
General Office Building	1,572.40	1,572.40	1572.40	5,065,429	5,065,429
Research & Development	11,946.75	11,946.75	11946.75	40,363,906	40,363,906
Unrefrigerated Warehouse-No Rail	47.74	47.74	47.74	204,614	204,614
Unrefrigerated Warehouse-Rail	40.50	40.50	40.50	173,585	173,585
Total	13,641.50	13,641.50	13,641.50	45,958,539	45,958,539

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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 Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.535275	0.058759	0.178478	0.127034	0.038632	0.006246	0.015618	0.028471	0.002426	0.003171	0.003696	0.000547	0.001645

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.3363	3.0574	2.5682	0.0183		0.2324	0.2324		0.2324	0.2324		3,668.8825	3,668.8825	0.0703	0.0673	3,691.2107
NaturalGas Unmitigated	0.3363	3.0574	2.5682	0.0183		0.2324	0.2324		0.2324	0.2324		3,668.8825	3,668.8825	0.0703	0.0673	3,691.2107

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	1597.56	0.0172	0.1566	0.1316	9.4000e-004		0.0119	0.0119		0.0119	0.0119		187.9484	187.9484	3.6000e-003	3.4500e-003	189.0923
General Office Building	5907.83	0.0637	0.5792	0.4865	3.4800e-003		0.0440	0.0440		0.0440	0.0440		695.0388	695.0388	0.0133	0.0127	699.2687
Research & Development	23588.6	0.2544	2.3126	1.9426	0.0139		0.1758	0.1758		0.1758	0.1758		2,775.1313	2,775.1313	0.0532	0.0509	2,792.0203
Unrefrigerated Warehouse-No Rail	52.2016	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.1414	6.1414	1.2000e-004	1.1000e-004	6.1787
Unrefrigerated Warehouse-Rail	39.2921	4.2000e-004	3.8500e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6226	4.6226	9.0000e-005	8.0000e-005	4.6507
Total		**0.3363**	**3.0574**	**2.5682**	**0.0184**		**0.2324**	**0.2324**		**0.2324**	**0.2324**		**3,668.8825**	**3,668.8825**	**0.0703**	**0.0673**	**3,691.2107**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	1.59756	0.0172	0.1566	0.1316	9.4000e-004		0.0119	0.0119		0.0119	0.0119		187.9484	187.9484	3.6000e-003	3.4500e-003	189.0923
General Office Building	5.90783	0.0637	0.5792	0.4865	3.4800e-003		0.0440	0.0440		0.0440	0.0440		695.0388	695.0388	0.0133	0.0127	699.2687
Research & Development	23.5886	0.2544	2.3126	1.9426	0.0139		0.1758	0.1758		0.1758	0.1758		2,775.1313	2,775.1313	0.0532	0.0509	2,792.0203
Unrefrigerated Warehouse-No Rail	0.0522016	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.1414	6.1414	1.2000e-004	1.1000e-004	6.1787
Unrefrigerated Warehouse-Rail	0.0392921	4.2000e-004	3.8500e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6226	4.6226	9.0000e-005	8.0000e-005	4.6507
Total		**0.3363**	**3.0574**	**2.5682**	**0.0184**		**0.2324**	**0.2324**		**0.2324**	**0.2324**		**3,668.8825**	**3,668.8825**	**0.0703**	**0.0673**	**3,691.2107**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	18.9063	7.5000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1582	0.1582	4.7000e-004		0.1681
Mitigated	18.9063	7.5000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1582	0.1582	4.7000e-004		0.1681

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.5887					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.7900e-003	7.5000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1582	0.1582	4.7000e-004		0.1681
Total	**18.9063**	**7.5000e-004**	**0.0772**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1582**	**0.1582**	**4.7000e-004**		**0.1681**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.5887					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.7900e-003	7.5000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1582	0.1582	4.7000e-004		0.1681
Total	**18.9063**	**7.5000e-004**	**0.0772**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**		**0.1582**	**0.1582**	**4.7000e-004**		**0.1681**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

LAC + USC Medical Center Master Plan - Future No Build

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	197.29	1000sqft	4.53	197,288.00	0
Research & Development	457.73	1000sqft	10.51	457,727.00	0
General Heavy Industry	31.00	1000sqft	0.71	31,000.00	0
Unrefrigerated Warehouse-No Rail	20.94	1000sqft	0.48	20,938.00	0
Unrefrigerated Warehouse-Rail	15.76	1000sqft	0.36	15,760.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1094	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Year 2012 CO2 emission rate for DWP

Land Use - CalEEMod land uses assigned based on land uses in Table 5 of TIA. Default caleemod acreage assumed based on known square footage.

Construction Phase - No construction

Off-road Equipment -

Off-road Equipment - No construction for existing uses

Vehicle Trips - trip rates from TIA after accounting for reductions from internal trips and transit credit. No pass-by reductions for existing uses, so default Caleemod trip purposes assumed.

Consumer Products - default consumer product ROG rate

Area Coating - default coating re-application rate and VOC content (250 g/L)

Energy Use - default elect and NG use

Water And Wastewater - default water consumption

Solid Waste - default waste consumption

Land Use Change - no existing vegetation assumed as it's a built site

Grading -

Demolition -

Trips and VMT -

Architectural Coating -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LandUseSquareFeet	197,290.00	197,288.00
tblLandUse	LandUseSquareFeet	457,730.00	457,727.00
tblLandUse	LandUseSquareFeet	20,940.00	20,938.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1094
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	ST_TR	1.50	1.10
tblVehicleTrips	ST_TR	2.37	7.97
tblVehicleTrips	ST_TR	1.90	26.10
tblVehicleTrips	ST_TR	2.59	2.28
tblVehicleTrips	ST_TR	1.63	2.57
tblVehicleTrips	SU_TR	1.50	1.10
tblVehicleTrips	SU_TR	0.98	7.97
tblVehicleTrips	SU_TR	1.11	26.10
tblVehicleTrips	SU_TR	2.59	2.28
tblVehicleTrips	SU_TR	1.63	2.57
tblVehicleTrips	WD_TR	1.50	1.10
tblVehicleTrips	WD_TR	11.01	7.97
tblVehicleTrips	WD_TR	8.11	26.10
tblVehicleTrips	WD_TR	2.59	2.28
tblVehicleTrips	WD_TR	1.63	2.57

2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0189
Energy											0.0000	5,031.6918	5,031.6918	0.1289	0.0354	5,045.3735
Mobile											0.0000	17,958.2555	17,958.2555	0.4783	0.0000	17,968.2989
Waste											59.1089	0.0000	59.1089	3.4932	0.0000	132.4669
Water											87.4935	1,900.4377	1,987.9312	9.0368	0.2226	2,246.7135
Total											**146.6024**	**24,890.4030**	**25,037.0054**	**13.1373**	**0.2580**	**25,392.8718**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0189
Energy											0.0000	5,031.6918	5,031.6918	0.1289	0.0354	5,045.3735
Mobile											0.0000	17,958.2555	17,958.2555	0.4783	0.0000	17,968.2989
Waste											59.1089	0.0000	59.1089	3.4932	0.0000	132.4669
Water											87.4935	1,900.4377	1,987.9312	9.0352	0.2223	2,246.5739
Total											**146.6024**	**24,890.4030**	**25,037.0054**	**13.1356**	**0.2577**	**25,392.7322**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**	**0.01**	**0.13**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	12/31/2014	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	162	0.38
Demolition	Rubber Tired Dozers	0	0.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	17,958.2555	17,958.2555	0.4783	0.0000	17,968.2989
Unmitigated											0.0000	17,958.2555	17,958.2555	0.4783	0.0000	17,968.2989

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	34.10	34.10	34.10	151,004	151,004
General Office Building	1,572.40	1,572.40	1572.40	5,065,429	5,065,429
Research & Development	11,946.75	11,946.75	11946.75	40,363,906	40,363,906
Unrefrigerated Warehouse-No Rail	47.74	47.74	47.74	204,614	204,614
Unrefrigerated Warehouse-Rail	40.50	40.50	40.50	173,585	173,585
Total	13,641.50	13,641.50	13,641.50	45,958,539	45,958,539

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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 Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.491908	0.059855	0.185077	0.131229	0.044940	0.007356	0.019164	0.046757	0.003019	0.003347	0.004084	0.000506	0.002760

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

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					
NaturalGas Mitigated											0.0000	607.4246	607.4246	0.0116	0.0111	611.1213
NaturalGas Unmitigated											0.0000	607.4246	607.4246	0.0116	0.0111	611.1213
Electricity Mitigated											0.0000	4,424.2672	4,424.2672	0.1173	0.0243	4,434.2521
Electricity Unmitigated											0.0000	4,424.2672	4,424.2672	0.1173	0.0243	4,434.2521

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 Heavy Industry	583110											0.0000	31.1170	31.1170	6.0000e-004	5.7000e-004	31.3063
General Office Building	2.15636e+006											0.0000	115.0715	115.0715	2.2100e-003	2.1100e-003	115.7718
Research & Development	8.60984e+006											0.0000	459.4541	459.4541	8.8100e-003	8.4200e-003	462.2503
Unrefrigerated Warehouse-No Rail	19053.6											0.0000	1.0168	1.0168	2.0000e-005	2.0000e-005	1.0230
Unrefrigerated Warehouse-Rail	14341.6											0.0000	0.7653	0.7653	1.0000e-005	1.0000e-005	0.7700
Total												**0.0000**	**607.4246**	**607.4246**	**0.0117**	**0.0111**	**611.1213**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	583110											0.0000	31.1170	31.1170	6.0000e-004	5.7000e-004	31.3063
General Office Building	2.15636e+006											0.0000	115.0715	115.0715	2.2100e-003	2.1100e-003	115.7718
Research & Development	8.60984e+006											0.0000	459.4541	459.4541	8.8100e-003	8.4200e-003	462.2503
Unrefrigerated Warehouse-No Rail	19053.6											0.0000	1.0168	1.0168	2.0000e-005	2.0000e-005	1.0230
Unrefrigerated Warehouse-Rail	14341.6											0.0000	0.7653	0.7653	1.0000e-005	1.0000e-005	0.7700
Total												**0.0000**	**607.4246**	**607.4246**	**0.0117**	**0.0111**	**611.1213**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	373550	185.3667	4.9100e-003	1.0200e-003	185.7851
General Office Building	2.86659e+006	1,422.4904	0.0377	7.8000e-003	1,425.7008
Research & Development	5.51561e+006	2,737.0116	0.0726	0.0150	2,743.1887
Unrefrigerated Warehouse-No Rail	91289.7	45.3007	1.2000e-003	2.5000e-004	45.4029
Unrefrigerated Warehouse-Rail	68713.6	34.0978	9.0000e-004	1.9000e-004	34.1747
Total		**4,424.2672**	**0.1173**	**0.0243**	**4,434.2521**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	373550	185.3667	4.9100e-003	1.0200e-003	185.7851
General Office Building	2.86659e+006	1,422.4904	0.0377	7.8000e-003	1,425.7008
Research & Development	5.51561e+006	2,737.0116	0.0726	0.0150	2,743.1887
Unrefrigerated Warehouse-No Rail	91289.7	45.3007	1.2000e-003	2.5000e-004	45.4029
Unrefrigerated Warehouse-Rail	68713.6	34.0978	9.0000e-004	1.9000e-004	34.1747
Total		**4,424.2672**	**0.1173**	**0.0243**	**4,434.2521**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0189
Unmitigated											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0189

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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0189
Total											**0.0000**	**0.0179**	**0.0179**	**5.0000e-005**	**0.0000**	**0.0189**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0179	0.0179	5.0000e-005	0.0000	0.0189
Total											**0.0000**	**0.0179**	**0.0179**	**5.0000e-005**	**0.0000**	**0.0189**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	1,987.9312	9.0368	0.2226	2,246.7135
Mitigated	1,987.9312	9.0352	0.2223	2,246.5739

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	7.16875 / 0	48.5946	0.2348	5.7700e-003	55.3144
General Office Building	35.0651 / 21.4915	356.1797	1.1517	0.0289	389.3165
Research & Development	225.063 / 0	1,525.6272	7.3722	0.1811	1,736.5975
Unrefrigerated Warehouse-No Rail	4.84237 / 0	32.8248	0.1586	3.9000e-003	37.3640
Unrefrigerated Warehouse-Rail	3.6445 / 0	24.7049	0.1194	2.9300e-003	28.1211
Total		**1,987.9312**	**9.0368**	**0.2226**	**2,246.7135**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	7.16875 / 0	48.5946	0.2348	5.7600e-003	55.3108
General Office Building	35.0651 / 21.4915	356.1797	1.1515	0.0288	389.2988
Research & Development	225.063 / 0	1,525.6272	7.3709	0.1809	1,736.4836
Unrefrigerated Warehouse-No Rail	4.84237 / 0	32.8248	0.1586	3.8900e-003	37.3616
Unrefrigerated Warehouse-Rail	3.6445 / 0	24.7049	0.1194	2.9300e-003	28.1193
Total		**1,987.9312**	**9.0352**	**0.2223**	**2,246.5739**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	59.1089	3.4932	0.0000	132.4669
Unmitigated	59.1089	3.4932	0.0000	132.4669

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	38.44	7.8030	0.4611	0.0000	17.4870
General Office Building	183.48	37.2448	2.2011	0.0000	83.4680
Research & Development	34.78	7.0600	0.4172	0.0000	15.8220
Unrefrigerated Warehouse-No Rail	19.68	3.9949	0.2361	0.0000	8.9527
Unrefrigerated Warehouse-Rail	14.81	3.0063	0.1777	0.0000	6.7373
Total		**59.1089**	**3.4932**	**0.0000**	**132.4669**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	38.44	7.8030	0.4611	0.0000	17.4870
General Office Building	183.48	37.2448	2.2011	0.0000	83.4680
Research & Development	34.78	7.0600	0.4172	0.0000	15.8220
Unrefrigerated Warehouse-No Rail	19.68	3.9949	0.2361	0.0000	8.9527
Unrefrigerated Warehouse-Rail	14.81	3.0063	0.1777	0.0000	6.7373
Total		**59.1089**	**3.4932**	**0.0000**	**132.4669**

9.0 Operational Offroad

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

10.0 Vegetation

LAC + USC Medical Center Master Plan - Future No Build

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	197.29	1000sqft	4.53	197,288.00	0
Research & Development	457.73	1000sqft	10.51	457,727.00	0
General Heavy Industry	31.00	1000sqft	0.71	31,000.00	0
Unrefrigerated Warehouse-No Rail	20.94	1000sqft	0.48	20,938.00	0
Unrefrigerated Warehouse-Rail	15.76	1000sqft	0.36	15,760.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1094	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Year 2012 CO2 emission rate for DWP

Land Use - CalEEMod land uses assigned based on land uses in Table 5 of TIA. Default caleemod acreage assumed based on known square footage.

Construction Phase - No construction

Off-road Equipment -

Off-road Equipment - No construction for existing uses

Vehicle Trips - trip rates from TIA after accounting for reductions from internal trips and transit credit. No pass-by reductions for existing uses, so default Caleemod trip purposes assumed.

Consumer Products - default consumer product ROG rate

Area Coating - default coating re-application rate and VOC content (250 g/L)

Energy Use - default elect and NG use

Water And Wastewater - default water consumption

Solid Waste - default waste consumption

Land Use Change - no existing vegetation assumed as it's a built site

Grading -

Demolition -

Trips and VMT -

Architectural Coating -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LandUseSquareFeet	197,290.00	197,288.00
tblLandUse	LandUseSquareFeet	457,730.00	457,727.00
tblLandUse	LandUseSquareFeet	20,940.00	20,938.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1094
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	ST_TR	1.50	1.10
tblVehicleTrips	ST_TR	2.37	7.97
tblVehicleTrips	ST_TR	1.90	26.10
tblVehicleTrips	ST_TR	2.59	2.28
tblVehicleTrips	ST_TR	1.63	2.57
tblVehicleTrips	SU_TR	1.50	1.10
tblVehicleTrips	SU_TR	0.98	7.97
tblVehicleTrips	SU_TR	1.11	26.10
tblVehicleTrips	SU_TR	2.59	2.28
tblVehicleTrips	SU_TR	1.63	2.57
tblVehicleTrips	WD_TR	1.50	1.10
tblVehicleTrips	WD_TR	11.01	7.97
tblVehicleTrips	WD_TR	8.11	26.10
tblVehicleTrips	WD_TR	2.59	2.28
tblVehicleTrips	WD_TR	1.63	2.57

2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.9052	6.6000e-004	0.0734	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1582	0.1582	4.1000e-004		0.1667
Energy	0.3363	3.0574	2.5682	0.0183		0.2324	0.2324		0.2324	0.2324		3,668.8825	3,668.8825	0.0703	0.0673	3,691.2107
Mobile	29.1222	76.4421	332.3138	1.4958	97.9182	2.1590	100.0772	26.2149	1.9921	28.2070		107,656.6601	107,656.6601	2.9039		107,717.6414
Total	**48.3637**	**79.5002**	**334.9554**	**1.5141**	**97.9182**	**2.3916**	**100.3098**	**26.2149**	**2.2247**	**28.4396**		**111,325.7008**	**111,325.7008**	**2.9746**	**0.0673**	**111,409.0188**

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	lb/day										lb/day					
Area	18.9052	6.6000e-004	0.0734	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1582	0.1582	4.1000e-004		0.1667
Energy	0.3363	3.0574	2.5682	0.0183		0.2324	0.2324		0.2324	0.2324		3,668.8825	3,668.8825	0.0703	0.0673	3,691.2107
Mobile	29.1222	76.4421	332.3138	1.4958	97.9182	2.1590	100.0772	26.2149	1.9921	28.2070		107,656.6601	107,656.6601	2.9039		107,717.6414
Total	**48.3637**	**79.5002**	**334.9554**	**1.5141**	**97.9182**	**2.3916**	**100.3098**	**26.2149**	**2.2247**	**28.4396**		**111,325.7008**	**111,325.7008**	**2.9746**	**0.0673**	**111,409.0188**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	12/31/2014	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	162	0.38
Demolition	Rubber Tired Dozers	0	0.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	29.1222	76.4421	332.3138	1.4958	97.9182	2.1590	100.0772	26.2149	1.9921	28.2070		107,656.6601	107,656.6601	2.9039		107,717.6414
Mitigated	29.1222	76.4421	332.3138	1.4958	97.9182	2.1590	100.0772	26.2149	1.9921	28.2070		107,656.6601	107,656.6601	2.9039		107,717.6414

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	34.10	34.10	34.10	151,004	151,004
General Office Building	1,572.40	1,572.40	1572.40	5,065,429	5,065,429
Research & Development	11,946.75	11,946.75	11946.75	40,363,906	40,363,906
Unrefrigerated Warehouse-No Rail	47.74	47.74	47.74	204,614	204,614
Unrefrigerated Warehouse-Rail	40.50	40.50	40.50	173,585	173,585
Total	13,641.50	13,641.50	13,641.50	45,958,539	45,958,539

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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 Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.491908	0.059855	0.185077	0.131229	0.044940	0.007356	0.019164	0.046757	0.003019	0.003347	0.004084	0.000506	0.002760

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.3363	3.0574	2.5682	0.0183		0.2324	0.2324		0.2324	0.2324		3,668.8825	3,668.8825	0.0703	0.0673	3,691.2107
NaturalGas Unmitigated	0.3363	3.0574	2.5682	0.0183		0.2324	0.2324		0.2324	0.2324		3,668.8825	3,668.8825	0.0703	0.0673	3,691.2107

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	1597.56	0.0172	0.1566	0.1316	9.4000e-004		0.0119	0.0119		0.0119	0.0119		187.9484	187.9484	3.6000e-003	3.4500e-003	189.0923
General Office Building	5907.83	0.0637	0.5792	0.4865	3.4800e-003		0.0440	0.0440		0.0440	0.0440		695.0388	695.0388	0.0133	0.0127	699.2687
Research & Development	23588.6	0.2544	2.3126	1.9426	0.0139		0.1758	0.1758		0.1758	0.1758		2,775.1313	2,775.1313	0.0532	0.0509	2,792.0203
Unrefrigerated Warehouse-No Rail	52.2016	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.1414	6.1414	1.2000e-004	1.1000e-004	6.1787
Unrefrigerated Warehouse-Rail	39.2921	4.2000e-004	3.8500e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6226	4.6226	9.0000e-005	8.0000e-005	4.6507
Total		**0.3363**	**3.0574**	**2.5682**	**0.0184**		**0.2324**	**0.2324**		**0.2324**	**0.2324**		**3,668.8825**	**3,668.8825**	**0.0703**	**0.0673**	**3,691.2107**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	1.59756	0.0172	0.1566	0.1316	9.4000e-004		0.0119	0.0119		0.0119	0.0119		187.9484	187.9484	3.6000e-003	3.4500e-003	189.0923
General Office Building	5.90783	0.0637	0.5792	0.4865	3.4800e-003		0.0440	0.0440		0.0440	0.0440		695.0388	695.0388	0.0133	0.0127	699.2687
Research & Development	23.5886	0.2544	2.3126	1.9426	0.0139		0.1758	0.1758		0.1758	0.1758		2,775.1313	2,775.1313	0.0532	0.0509	2,792.0203
Unrefrigerated Warehouse-No Rail	0.0522016	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.1414	6.1414	1.2000e-004	1.1000e-004	6.1787
Unrefrigerated Warehouse-Rail	0.0392921	4.2000e-004	3.8500e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6226	4.6226	9.0000e-005	8.0000e-005	4.6507
Total		**0.3363**	**3.0574**	**2.5682**	**0.0184**		**0.2324**	**0.2324**		**0.2324**	**0.2324**		**3,668.8825**	**3,668.8825**	**0.0703**	**0.0673**	**3,691.2107**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	18.9052	6.6000e-004	0.0734	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1582	0.1582	4.1000e-004		0.1667
Mitigated	18.9052	6.6000e-004	0.0734	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1582	0.1582	4.1000e-004		0.1667

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.5887					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7100e-003	6.6000e-004	0.0734	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1582	0.1582	4.1000e-004		0.1667
Total	**18.9052**	**6.6000e-004**	**0.0734**	**1.0000e-005**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**		**0.1582**	**0.1582**	**4.1000e-004**		**0.1667**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.5887					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.3097					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7100e-003	6.6000e-004	0.0734	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1582	0.1582	4.1000e-004		0.1667
Total	**18.9052**	**6.6000e-004**	**0.0734**	**1.0000e-005**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**		**0.1582**	**0.1582**	**4.1000e-004**		**0.1667**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

LAC + USC Medical Center Master Plan - 2040 Buildout

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	265.00	1000sqft	6.08	265,000.00	0
Hospital	450.00	Bed	7.39	322,090.91	0
Medical Office Building	200.00	1000sqft	4.59	200,000.00	0
Research & Development	635.00	1000sqft	14.58	635,000.00	0
Unrefrigerated Warehouse-No Rail	40.00	1000sqft	0.92	40,000.00	0
Enclosed Parking with Elevator	3,228.00	Space	29.05	1,291,200.00	0
Health Club	85.00	1000sqft	1.95	85,000.00	0
Strip Mall	20.00	1000sqft	0.46	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1094	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2040 Buildout; 2035 year assumed since max year available. LADWP CO2 emission factor based on year 2012 (https://data.lacity.org/A-Livable-and-Sustainable-City/LADWP-CO2-Generation/e5ni-eqan#column-menu).

Land Use - all land uses per TIA Table 5. Hospital ft2 based on caleemod default for 450 beds.

Construction Phase - default construction schedule (start/stop dates, phase lengths) based on acreage associated with Master Plan buildout

Trips and VMT - default worker, vendor, and haul trip numbers, fleet mix, and trip lengths

Demolition - 722,709 sf of existing uses to be demolished.

Grading - volume of soil movement for underground parking or any facilities unknown

Architectural Coating - Default non-res 250 g/L for coatings

Construction Off-road Equipment Mitigation - Tier 4 Final, watering 3x daily (unmitigated)

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConsumerProducts	ROG_EF	1.98E-05	1.09E-05
tblGrading	AcresOfGrading	275.00	65.02
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1094
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	DV_TP	39.00	43.50
tblVehicleTrips	DV_TP	40.00	47.50
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	52.00	56.50
tblVehicleTrips	PR_TP	45.00	52.50
tblVehicleTrips	ST_TR	20.87	19.55
tblVehicleTrips	ST_TR	8.14	9.35
tblVehicleTrips	ST_TR	42.04	28.80
tblVehicleTrips	ST_TR	2.59	2.23
tblVehicleTrips	SU_TR	26.73	19.55
tblVehicleTrips	SU_TR	7.19	9.35
tblVehicleTrips	SU_TR	20.43	28.80
tblVehicleTrips	SU_TR	2.59	2.23

tblVehicleTrips	WD_TR	11.01	7.97
tblVehicleTrips	WD_TR	32.93	19.55
tblVehicleTrips	WD_TR	11.81	9.35
tblVehicleTrips	WD_TR	36.13	26.11
tblVehicleTrips	WD_TR	8.11	5.86
tblVehicleTrips	WD_TR	44.32	28.80
tblVehicleTrips	WD_TR	2.59	2.23

2.0 Emissions Summary

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					
2015	0.9578	9.5024	8.6612	0.0128	1.4286	0.4273	1.8559	0.5315	0.3951	0.9266	0.0000	1,147.1755	1,147.1755	0.1850	0.0000	1,151.0609
2016	1.5955	10.1871	18.8392	0.0361	1.8847	0.3552	2.2399	0.5079	0.3318	0.8397	0.0000	3,005.4491	3,005.4491	0.1711	0.0000	3,009.0418
2017	1.4391	9.2966	17.4460	0.0359	1.8776	0.3199	2.1976	0.5060	0.2988	0.8048	0.0000	2,916.0962	2,916.0962	0.1624	0.0000	2,919.5060
2018	1.3021	8.4359	16.3785	0.0361	1.8849	0.2789	2.1638	0.5080	0.2606	0.7686	0.0000	2,852.0266	2,852.0266	0.1562	0.0000	2,855.3058
2019	1.1960	7.7119	15.4793	0.0359	1.8850	0.2478	2.1328	0.5080	0.2315	0.7395	0.0000	2,770.8193	2,770.8193	0.1500	0.0000	2,773.9691
2020	33.3162	1.3029	2.4734	5.7000e-003	0.2807	0.0545	0.3352	0.0753	0.0508	0.1261	0.0000	428.3247	428.3247	0.0429	0.0000	429.2257
Total	**39.8066**	**46.4367**	**79.2775**	**0.1625**	**9.2414**	**1.6837**	**10.9251**	**2.6367**	**1.5685**	**4.2052**	**0.0000**	**13,119.8914**	**13,119.8914**	**0.8675**	**0.0000**	**13,138.1093**

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					
2015	0.3215	2.0478	6.8940	0.0128	0.7682	0.0371	0.8053	0.2642	0.0349	0.2991	0.0000	1,147.1748	1,147.1748	0.1850	0.0000	1,151.0602
2016	1.1936	6.7579	18.6962	0.0361	1.8847	0.1038	1.9885	0.5079	0.0959	0.6038	0.0000	3,005.4487	3,005.4487	0.1711	0.0000	3,009.0414
2017	1.0782	6.1536	17.3527	0.0359	1.8776	0.0936	1.9713	0.5060	0.0866	0.5926	0.0000	2,916.0959	2,916.0959	0.1624	0.0000	2,919.5057
2018	0.9965	5.6913	16.3626	0.0361	1.8849	0.0892	1.9741	0.5080	0.0826	0.5906	0.0000	2,852.0263	2,852.0263	0.1562	0.0000	2,855.3054
2019	0.9317	5.2669	15.5172	0.0359	1.8850	0.0854	1.9704	0.5080	0.0791	0.5871	0.0000	2,770.8189	2,770.8189	0.1500	0.0000	2,773.9687
2020	33.2454	0.5531	2.5779	5.7000e-003	0.2807	0.0102	0.2909	0.0753	9.6000e-003	0.0849	0.0000	428.3246	428.3246	0.0429	0.0000	429.2255
Total	**37.7669**	**26.4704**	**77.4005**	**0.1625**	**8.5810**	**0.4194**	**9.0004**	**2.3694**	**0.3886**	**2.7580**	**0.0000**	**13,119.8891**	**13,119.8891**	**0.8675**	**0.0000**	**13,138.1070**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**5.12**	**43.00**	**2.37**	**0.00**	**7.15**	**75.09**	**17.62**	**10.14**	**75.23**	**34.42**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	9.0036	5.6000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1222	0.1222	3.1000e-004	0.0000	0.1288
Energy	0.2138	1.9434	1.6324	0.0117		0.1477	0.1477		0.1477	0.1477	0.0000	18,099.6971	18,099.6971	0.4643	0.1265	18,148.6461
Mobile	5.4613	14.8606	63.8516	0.2849	18.0527	0.4068	18.4594	4.8410	0.3754	5.2164	0.0000	18,584.4337	18,584.4337	0.4961	0.0000	18,594.8519
Waste						0.0000	0.0000		0.0000	0.0000	875.2585	0.0000	875.2585	51.7263	0.0000	1,961.5106
Water						0.0000	0.0000		0.0000	0.0000	139.7808	3,096.8094	3,236.5902	14.4389	0.3560	3,650.1612
Total	**14.6787**	**16.8045**	**65.5465**	**0.2966**	**18.0527**	**0.5547**	**18.6074**	**4.8410**	**0.5233**	**5.3643**	**1,015.0392**	**39,781.0624**	**40,796.1016**	**67.1259**	**0.4824**	**42,355.2986**

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	9.0036	5.6000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1222	0.1222	3.1000e-004	0.0000	0.1288
Energy	0.1870	1.7001	1.4281	0.0102		0.1292	0.1292		0.1292	0.1292	0.0000	16,847.8536	16,847.8536	0.4330	0.1162	16,892.9633
Mobile	5.4613	14.8606	63.8516	0.2849	18.0527	0.4068	18.4594	4.8410	0.3754	5.2164	0.0000	18,584.4337	18,584.4337	0.4961	0.0000	18,594.8519
Waste						0.0000	0.0000		0.0000	0.0000	875.2585	0.0000	875.2585	51.7263	0.0000	1,961.5106
Water						0.0000	0.0000		0.0000	0.0000	111.8246	2,398.3994	2,510.2241	11.5490	0.2844	2,840.9025
Total	**14.6519**	**16.5613**	**65.3422**	**0.2951**	**18.0527**	**0.5362**	**18.5889**	**4.8410**	**0.5048**	**5.3458**	**987.0831**	**37,830.8089**	**38,817.8920**	**64.2048**	**0.4005**	**40,290.3571**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.18**	**1.45**	**0.31**	**0.49**	**0.00**	**3.33**	**0.10**	**0.00**	**3.53**	**0.34**	**2.75**	**4.90**	**4.85**	**4.35**	**16.98**	**4.88**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	4/8/2015	5	70	
2	Site Preparation	Site Preparation	4/9/2015	6/3/2015	5	40	
3	Grading	Grading	6/4/2015	11/4/2015	5	110	
4	Building Construction	Building Construction	11/5/2015	2/5/2020	5	1110	
5	Paving	Paving	2/6/2020	5/20/2020	5	75	
6	Architectural Coating	Architectural Coating	5/21/2020	9/2/2020	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 65.02

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,287,436; Non-Residential Outdoor: 1,429,145 (Architectural Coating – sqft)

OffRoad Equipment

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	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	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	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	3,287.00	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	1,056.00	468.00	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	211.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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					
Fugitive Dust					0.3557	0.0000	0.3557	0.0539	0.0000	0.0539	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1578	1.6927	1.2626	1.4000e-003		0.0858	0.0858		0.0800	0.0800	0.0000	131.0444	131.0444	0.0355	0.0000	131.7905
Total	**0.1578**	**1.6927**	**1.2626**	**1.4000e-003**	**0.3557**	**0.0858**	**0.4415**	**0.0539**	**0.0800**	**0.1339**	**0.0000**	**131.0444**	**131.0444**	**0.0355**	**0.0000**	**131.7905**

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	0.0343	0.5495	0.3964	1.2300e-003	0.0281	8.6100e-003	0.0367	7.7100e-003	7.9200e-003	0.0156	0.0000	113.3640	113.3640	9.3000e-004	0.0000	113.3835
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5500e-003	3.7000e-003	0.0386	7.0000e-005	5.7500e-003	6.0000e-005	5.8100e-003	1.5300e-003	5.0000e-005	1.5800e-003	0.0000	5.8076	5.8076	3.5000e-004	0.0000	5.8148
Total	**0.0368**	**0.5532**	**0.4350**	**1.3000e-003**	**0.0339**	**8.6700e-003**	**0.0425**	**9.2400e-003**	**7.9700e-003**	**0.0172**	**0.0000**	**119.1716**	**119.1716**	**1.2800e-003**	**0.0000**	**119.1983**

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					0.1387	0.0000	0.1387	0.0210	0.0000	0.0210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.0719	0.8339	1.4000e-003		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	131.0443	131.0443	0.0355	0.0000	131.7903
Total	**0.0166**	**0.0719**	**0.8339**	**1.4000e-003**	**0.1387**	**2.2100e-003**	**0.1409**	**0.0210**	**2.2100e-003**	**0.0232**	**0.0000**	**131.0443**	**131.0443**	**0.0355**	**0.0000**	**131.7903**

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	0.0343	0.5495	0.3964	1.2300e-003	0.0281	8.6100e-003	0.0367	7.7100e-003	7.9200e-003	0.0156	0.0000	113.3640	113.3640	9.3000e-004	0.0000	113.3835
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5500e-003	3.7000e-003	0.0386	7.0000e-005	5.7500e-003	6.0000e-005	5.8100e-003	1.5300e-003	5.0000e-005	1.5800e-003	0.0000	5.8076	5.8076	3.5000e-004	0.0000	5.8148
Total	**0.0368**	**0.5532**	**0.4350**	**1.3000e-003**	**0.0339**	**8.6700e-003**	**0.0425**	**9.2400e-003**	**7.9700e-003**	**0.0172**	**0.0000**	**119.1716**	**119.1716**	**1.2800e-003**	**0.0000**	**119.1983**

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					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1052	1.1378	0.8526	7.8000e-004		0.0618	0.0618		0.0568	0.0568	0.0000	74.6022	74.6022	0.0223	0.0000	75.0699
Total	**0.1052**	**1.1378**	**0.8526**	**7.8000e-004**	**0.3613**	**0.0618**	**0.4231**	**0.1986**	**0.0568**	**0.2554**	**0.0000**	**74.6022**	**74.6022**	**0.0223**	**0.0000**	**75.0699**

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	1.7500e-003	2.5400e-003	0.0265	5.0000e-005	3.9400e-003	4.0000e-005	3.9900e-003	1.0500e-003	4.0000e-005	1.0800e-003	0.0000	3.9823	3.9823	2.4000e-004	0.0000	3.9873
Total	**1.7500e-003**	**2.5400e-003**	**0.0265**	**5.0000e-005**	**3.9400e-003**	**4.0000e-005**	**3.9900e-003**	**1.0500e-003**	**4.0000e-005**	**1.0800e-003**	**0.0000**	**3.9823**	**3.9823**	**2.4000e-004**	**0.0000**	**3.9873**

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					0.1409	0.0000	0.1409	0.0775	0.0000	0.0775	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5100e-003	0.0412	0.4248	7.8000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	74.6022	74.6022	0.0223	0.0000	75.0699
Total	**9.5100e-003**	**0.0412**	**0.4248**	**7.8000e-004**	**0.1409**	**1.2700e-003**	**0.1422**	**0.0775**	**1.2700e-003**	**0.0787**	**0.0000**	**74.6022**	**74.6022**	**0.0223**	**0.0000**	**75.0699**

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	1.7500e-003	2.5400e-003	0.0265	5.0000e-005	3.9400e-003	4.0000e-005	3.9900e-003	1.0500e-003	4.0000e-005	1.0800e-003	0.0000	3.9823	3.9823	2.4000e-004	0.0000	3.9873
Total	**1.7500e-003**	**2.5400e-003**	**0.0265**	**5.0000e-005**	**3.9400e-003**	**4.0000e-005**	**3.9900e-003**	**1.0500e-003**	**4.0000e-005**	**1.0800e-003**	**0.0000**	**3.9823**	**3.9823**	**2.4000e-004**	**0.0000**	**3.9873**

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					0.3657	0.0000	0.3657	0.1858	0.0000	0.1858	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3726	4.3476	2.7962	3.4000e-003		0.2091	0.2091		0.1924	0.1924	0.0000	323.6322	323.6322	0.0966	0.0000	325.6611
Total	**0.3726**	**4.3476**	**2.7962**	**3.4000e-003**	**0.3657**	**0.2091**	**0.5748**	**0.1858**	**0.1924**	**0.3782**	**0.0000**	**323.6322**	**323.6322**	**0.0966**	**0.0000**	**325.6611**

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	5.3300e-003	7.7600e-003	0.0809	1.5000e-004	0.0121	1.2000e-004	0.0122	3.2000e-003	1.1000e-004	3.3100e-003	0.0000	12.1683	12.1683	7.2000e-004	0.0000	12.1835
Total	**5.3300e-003**	**7.7600e-003**	**0.0809**	**1.5000e-004**	**0.0121**	**1.2000e-004**	**0.0122**	**3.2000e-003**	**1.1000e-004**	**3.3100e-003**	**0.0000**	**12.1683**	**12.1683**	**7.2000e-004**	**0.0000**	**12.1835**

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					0.1426	0.0000	0.1426	0.0725	0.0000	0.0725	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	0.1803	1.9128	3.4000e-003		5.5500e-003	5.5500e-003		5.5500e-003	5.5500e-003	0.0000	323.6318	323.6318	0.0966	0.0000	325.6607
Total	**0.0416**	**0.1803**	**1.9128**	**3.4000e-003**	**0.1426**	**5.5500e-003**	**0.1482**	**0.0725**	**5.5500e-003**	**0.0780**	**0.0000**	**323.6318**	**323.6318**	**0.0966**	**0.0000**	**325.6607**

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	5.3300e-003	7.7600e-003	0.0809	1.5000e-004	0.0121	1.2000e-004	0.0122	3.2000e-003	1.1000e-004	3.3100e-003	0.0000	12.1683	12.1683	7.2000e-004	0.0000	12.1835
Total	**5.3300e-003**	**7.7600e-003**	**0.0809**	**1.5000e-004**	**0.0121**	**1.2000e-004**	**0.0122**	**3.2000e-003**	**1.1000e-004**	**3.3100e-003**	**0.0000**	**12.1683**	**12.1683**	**7.2000e-004**	**0.0000**	**12.1835**

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	0.0750	0.6156	0.3843	5.5000e-004		0.0434	0.0434		0.0408	0.0408	0.0000	50.0188	50.0188	0.0126	0.0000	50.2824
Total	**0.0750**	**0.6156**	**0.3843**	**5.5000e-004**		**0.0434**	**0.0434**		**0.0408**	**0.0408**	**0.0000**	**50.0188**	**50.0188**	**0.0126**	**0.0000**	**50.2824**

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	0.0982	0.9925	1.2319	2.1100e-003	0.0588	0.0160	0.0748	0.0168	0.0147	0.0315	0.0000	193.0842	193.0842	1.5700e-003	0.0000	193.1172
Worker	0.1050	0.1528	1.5913	3.0200e-003	0.2372	2.4200e-003	0.2396	0.0630	2.2200e-003	0.0652	0.0000	239.4715	239.4715	0.0143	0.0000	239.7707
Total	**0.2032**	**1.1452**	**2.8232**	**5.1300e-003**	**0.2960**	**0.0184**	**0.3144**	**0.0798**	**0.0169**	**0.0967**	**0.0000**	**432.5556**	**432.5556**	**0.0158**	**0.0000**	**432.8879**

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	6.6900e-003	0.0457	0.3569	5.5000e-004		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	50.0188	50.0188	0.0126	0.0000	50.2823
Total	**6.6900e-003**	**0.0457**	**0.3569**	**5.5000e-004**		**8.3000e-004**	**8.3000e-004**		**8.3000e-004**	**8.3000e-004**	**0.0000**	**50.0188**	**50.0188**	**0.0126**	**0.0000**	**50.2823**

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	0.0982	0.9925	1.2319	2.1100e-003	0.0588	0.0160	0.0748	0.0168	0.0147	0.0315	0.0000	193.0842	193.0842	1.5700e-003	0.0000	193.1172
Worker	0.1050	0.1528	1.5913	3.0200e-003	0.2372	2.4200e-003	0.2396	0.0630	2.2200e-003	0.0652	0.0000	239.4715	239.4715	0.0143	0.0000	239.7707
Total	**0.2032**	**1.1452**	**2.8232**	**5.1300e-003**	**0.2960**	**0.0184**	**0.3144**	**0.0798**	**0.0169**	**0.0967**	**0.0000**	**432.5556**	**432.5556**	**0.0158**	**0.0000**	**432.8879**

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	0.4445	3.7201	2.4151	3.5000e-003		0.2567	0.2567		0.2412	0.2412	0.0000	316.0104	316.0104	0.0784	0.0000	317.6563
Total	**0.4445**	**3.7201**	**2.4151**	**3.5000e-003**		**0.2567**	**0.2567**		**0.2412**	**0.2412**	**0.0000**	**316.0104**	**316.0104**	**0.0784**	**0.0000**	**317.6563**

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	0.5491	5.5876	7.2579	0.0134	0.3746	0.0839	0.4585	0.1068	0.0772	0.1840	0.0000	1,215.8862	1,215.8862	9.0600e-003	0.0000	1,216.0765
Worker	0.6019	0.8793	9.1661	0.0192	1.5101	0.0146	1.5247	0.4011	0.0134	0.4145	0.0000	1,473.5525	1,473.5525	0.0836	0.0000	1,475.3090
Total	**1.1510**	**6.4670**	**16.4240**	**0.0326**	**1.8847**	**0.0985**	**1.9832**	**0.5079**	**0.0906**	**0.5985**	**0.0000**	**2,689.4386**	**2,689.4386**	**0.0927**	**0.0000**	**2,691.3855**

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	0.0426	0.2909	2.2721	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	316.0101	316.0101	0.0784	0.0000	317.6560
Total	**0.0426**	**0.2909**	**2.2721**	**3.5000e-003**		**5.3000e-003**	**5.3000e-003**		**5.3000e-003**	**5.3000e-003**	**0.0000**	**316.0101**	**316.0101**	**0.0784**	**0.0000**	**317.6560**

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	0.5491	5.5876	7.2579	0.0134	0.3746	0.0839	0.4585	0.1068	0.0772	0.1840	0.0000	1,215.8862	1,215.8862	9.0600e-003	0.0000	1,216.0765
Worker	0.6019	0.8793	9.1661	0.0192	1.5101	0.0146	1.5247	0.4011	0.0134	0.4145	0.0000	1,473.5525	1,473.5525	0.0836	0.0000	1,475.3090
Total	**1.1510**	**6.4670**	**16.4240**	**0.0326**	**1.8847**	**0.0985**	**1.9832**	**0.5079**	**0.0906**	**0.5985**	**0.0000**	**2,689.4386**	**2,689.4386**	**0.0927**	**0.0000**	**2,691.3855**

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	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3228	311.3228	0.0766	0.0000	312.9319
Total	**0.4033**	**3.4327**	**2.3568**	**3.4900e-003**		**0.2316**	**0.2316**		**0.2175**	**0.2175**	**0.0000**	**311.3228**	**311.3228**	**0.0766**	**0.0000**	**312.9319**

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	0.4987	5.0715	6.8418	0.0133	0.3733	0.0745	0.4478	0.1065	0.0685	0.1750	0.0000	1,191.8764	1,191.8764	8.7400e-003	0.0000	1,192.0600
Worker	0.5370	0.7923	8.2475	0.0191	1.5043	0.0139	1.5182	0.3996	0.0128	0.4124	0.0000	1,412.8970	1,412.8970	0.0770	0.0000	1,414.5142
Total	**1.0357**	**5.8638**	**15.0893**	**0.0325**	**1.8776**	**0.0884**	**1.9660**	**0.5060**	**0.0813**	**0.5873**	**0.0000**	**2,604.7734**	**2,604.7734**	**0.0858**	**0.0000**	**2,606.5742**

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	0.0424	0.2898	2.2634	3.4900e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	311.3225	311.3225	0.0766	0.0000	312.9315
Total	**0.0424**	**0.2898**	**2.2634**	**3.4900e-003**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**311.3225**	**311.3225**	**0.0766**	**0.0000**	**312.9315**

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	0.4987	5.0715	6.8418	0.0133	0.3733	0.0745	0.4478	0.1065	0.0685	0.1750	0.0000	1,191.8764	1,191.8764	8.7400e-003	0.0000	1,192.0600
Worker	0.5370	0.7923	8.2475	0.0191	1.5043	0.0139	1.5182	0.3996	0.0128	0.4124	0.0000	1,412.8970	1,412.8970	0.0770	0.0000	1,414.5142
Total	**1.0357**	**5.8638**	**15.0893**	**0.0325**	**1.8776**	**0.0884**	**1.9660**	**0.5060**	**0.0813**	**0.5873**	**0.0000**	**2,604.7734**	**2,604.7734**	**0.0858**	**0.0000**	**2,606.5742**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833	0.0000	308.9844	308.9844	0.0756	0.0000	310.5723
Total	**0.3483**	**3.0355**	**2.2880**	**3.5000e-003**		**0.1950**	**0.1950**		**0.1833**	**0.1833**	**0.0000**	**308.9844**	**308.9844**	**0.0756**	**0.0000**	**310.5723**

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.4703	4.6784	6.5924	0.0134	0.3748	0.0704	0.4452	0.1069	0.0648	0.1717	0.0000	1,176.6912	1,176.6912	8.7300e-003	0.0000	1,176.8745
Worker	0.4836	0.7220	7.4980	0.0192	1.5101	0.0135	1.5236	0.4011	0.0125	0.4136	0.0000	1,366.3510	1,366.3510	0.0718	0.0000	1,367.8589
Total	**0.9539**	**5.4004**	**14.0905**	**0.0326**	**1.8849**	**0.0839**	**1.9688**	**0.5080**	**0.0773**	**0.5853**	**0.0000**	**2,543.0422**	**2,543.0422**	**0.0805**	**0.0000**	**2,544.7334**

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	0.0426	0.2909	2.2721	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	308.9841	308.9841	0.0756	0.0000	310.5720
Total	**0.0426**	**0.2909**	**2.2721**	**3.5000e-003**		**5.3000e-003**	**5.3000e-003**		**5.3000e-003**	**5.3000e-003**	**0.0000**	**308.9841**	**308.9841**	**0.0756**	**0.0000**	**310.5720**

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.4703	4.6784	6.5924	0.0134	0.3748	0.0704	0.4452	0.1069	0.0648	0.1717	0.0000	1,176.6912	1,176.6912	8.7300e-003	0.0000	1,176.8745
Worker	0.4836	0.7220	7.4980	0.0192	1.5101	0.0135	1.5236	0.4011	0.0125	0.4136	0.0000	1,366.3510	1,366.3510	0.0718	0.0000	1,367.8589
Total	**0.9539**	**5.4004**	**14.0905**	**0.0326**	**1.8849**	**0.0839**	**1.9688**	**0.5080**	**0.0773**	**0.5853**	**0.0000**	**2,543.0422**	**2,543.0422**	**0.0805**	**0.0000**	**2,544.7334**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3069	2.7359	2.2342	3.5000e-003		0.1677	0.1677		0.1577	0.1577	0.0000	305.5302	305.5302	0.0743	0.0000	307.0913
Total	**0.3069**	**2.7359**	**2.2342**	**3.5000e-003**		**0.1677**	**0.1677**		**0.1577**	**0.1577**	**0.0000**	**305.5302**	**305.5302**	**0.0743**	**0.0000**	**307.0913**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4457	4.3140	6.3751	0.0133	0.3749	0.0669	0.4418	0.1069	0.0616	0.1685	0.0000	1,152.5362	1,152.5362	8.5400e-003	0.0000	1,152.7156
Worker	0.4434	0.6620	6.8700	0.0191	1.5101	0.0132	1.5233	0.4011	0.0122	0.4133	0.0000	1,312.7529	1,312.7529	0.0671	0.0000	1,314.1622
Total	**0.8891**	**4.9760**	**13.2450**	**0.0324**	**1.8850**	**0.0801**	**1.9651**	**0.5080**	**0.0738**	**0.5818**	**0.0000**	**2,465.2891**	**2,465.2891**	**0.0757**	**0.0000**	**2,466.8778**

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	0.0426	0.2909	2.2721	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	305.5299	305.5299	0.0743	0.0000	307.0909
Total	**0.0426**	**0.2909**	**2.2721**	**3.5000e-003**		**5.3000e-003**	**5.3000e-003**		**5.3000e-003**	**5.3000e-003**	**0.0000**	**305.5299**	**305.5299**	**0.0743**	**0.0000**	**307.0909**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4457	4.3140	6.3751	0.0133	0.3749	0.0669	0.4418	0.1069	0.0616	0.1685	0.0000	1,152.5362	1,152.5362	8.5400e-003	0.0000	1,152.7156
Worker	0.4434	0.6620	6.8700	0.0191	1.5101	0.0132	1.5233	0.4011	0.0122	0.4133	0.0000	1,312.7529	1,312.7529	0.0671	0.0000	1,314.1622
Total	**0.8891**	**4.9760**	**13.2450**	**0.0324**	**1.8850**	**0.0801**	**1.9651**	**0.5080**	**0.0738**	**0.5818**	**0.0000**	**2,465.2891**	**2,465.2891**	**0.0757**	**0.0000**	**2,466.8778**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0275	0.2481	0.2185	3.5000e-004		0.0145	0.0145		0.0136	0.0136	0.0000	29.9845	29.9845	7.3100e-003	0.0000	30.1379
Total	**0.0275**	**0.2481**	**0.2185**	**3.5000e-004**		**0.0145**	**0.0145**		**0.0136**	**0.0136**	**0.0000**	**29.9845**	**29.9845**	**7.3100e-003**	**0.0000**	**30.1379**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0424	0.3758	0.6178	1.3200e-003	0.0374	6.0900e-003	0.0434	0.0107	5.6000e-003	0.0163	0.0000	112.2541	112.2541	8.3000e-004	0.0000	112.2717
Worker	0.0414	0.0611	0.6370	1.9000e-003	0.1504	1.3000e-003	0.1517	0.0400	1.2000e-003	0.0412	0.0000	125.5161	125.5161	6.3400e-003	0.0000	125.6492
Total	**0.0838**	**0.4370**	**1.2548**	**3.2200e-003**	**0.1878**	**7.3900e-003**	**0.1952**	**0.0506**	**6.8000e-003**	**0.0574**	**0.0000**	**237.7702**	**237.7702**	**7.1700e-003**	**0.0000**	**237.9208**

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	4.2400e-003	0.0290	0.2263	3.5000e-004		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	29.9845	29.9845	7.3100e-003	0.0000	30.1379
Total	**4.2400e-003**	**0.0290**	**0.2263**	**3.5000e-004**		**5.3000e-004**	**5.3000e-004**		**5.3000e-004**	**5.3000e-004**	**0.0000**	**29.9845**	**29.9845**	**7.3100e-003**	**0.0000**	**30.1379**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0424	0.3758	0.6178	1.3200e-003	0.0374	6.0900e-003	0.0434	0.0107	5.6000e-003	0.0163	0.0000	112.2541	112.2541	8.3000e-004	0.0000	112.2717
Worker	0.0414	0.0611	0.6370	1.9000e-003	0.1504	1.3000e-003	0.1517	0.0400	1.2000e-003	0.0412	0.0000	125.5161	125.5161	6.3400e-003	0.0000	125.6492
Total	**0.0838**	**0.4370**	**1.2548**	**3.2200e-003**	**0.1878**	**7.3900e-003**	**0.1952**	**0.0506**	**6.8000e-003**	**0.0574**	**0.0000**	**237.7702**	**237.7702**	**7.1700e-003**	**0.0000**	**237.9208**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0499	0.5169	0.5382	8.4000e-004		0.0277	0.0277		0.0255	0.0255	0.0000	73.5077	73.5077	0.0238	0.0000	74.0070
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0499**	**0.5169**	**0.5382**	**8.4000e-004**		**0.0277**	**0.0277**		**0.0255**	**0.0255**	**0.0000**	**73.5077**	**73.5077**	**0.0238**	**0.0000**	**74.0070**

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.7000e-003	2.5000e-003	0.0261	8.0000e-005	6.1600e-003	5.0000e-005	6.2200e-003	1.6400e-003	5.0000e-005	1.6900e-003	0.0000	5.1430	5.1430	2.6000e-004	0.0000	5.1484
Total	**1.7000e-003**	**2.5000e-003**	**0.0261**	**8.0000e-005**	**6.1600e-003**	**5.0000e-005**	**6.2200e-003**	**1.6400e-003**	**5.0000e-005**	**1.6900e-003**	**0.0000**	**5.1430**	**5.1430**	**2.6000e-004**	**0.0000**	**5.1484**

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	0.0103	0.0446	0.6348	8.4000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	73.5076	73.5076	0.0238	0.0000	74.0069
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0103**	**0.0446**	**0.6348**	**8.4000e-004**		**1.3700e-003**	**1.3700e-003**		**1.3700e-003**	**1.3700e-003**	**0.0000**	**73.5076**	**73.5076**	**0.0238**	**0.0000**	**74.0069**

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.7000e-003	2.5000e-003	0.0261	8.0000e-005	6.1600e-003	5.0000e-005	6.2200e-003	1.6400e-003	5.0000e-005	1.6900e-003	0.0000	5.1430	5.1430	2.6000e-004	0.0000	5.1484
Total	**1.7000e-003**	**2.5000e-003**	**0.0261**	**8.0000e-005**	**6.1600e-003**	**5.0000e-005**	**6.2200e-003**	**1.6400e-003**	**5.0000e-005**	**1.6900e-003**	**0.0000**	**5.1430**	**5.1430**	**2.6000e-004**	**0.0000**	**5.1484**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	33.1204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0631	0.0687	1.1000e-004		4.1600e-003	4.1600e-003		4.1600e-003	4.1600e-003	0.0000	9.5747	9.5747	7.4000e-004	0.0000	9.5903
Total	**33.1295**	**0.0631**	**0.0687**	**1.1000e-004**		**4.1600e-003**	**4.1600e-003**		**4.1600e-003**	**4.1600e-003**	**0.0000**	**9.5747**	**9.5747**	**7.4000e-004**	**0.0000**	**9.5903**

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0239	0.0352	0.3671	1.1000e-003	0.0867	7.5000e-004	0.0875	0.0230	6.9000e-004	0.0237	0.0000	72.3446	72.3446	3.6500e-003	0.0000	72.4213
Total	**0.0239**	**0.0352**	**0.3671**	**1.1000e-003**	**0.0867**	**7.5000e-004**	**0.0875**	**0.0230**	**6.9000e-004**	**0.0237**	**0.0000**	**72.3446**	**72.3446**	**3.6500e-003**	**0.0000**	**72.4213**

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	33.1204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	4.8300e-003	0.0687	1.1000e-004		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	9.5747	9.5747	7.4000e-004	0.0000	9.5903
Total	**33.1216**	**4.8300e-003**	**0.0687**	**1.1000e-004**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**9.5747**	**9.5747**	**7.4000e-004**	**0.0000**	**9.5903**

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0239	0.0352	0.3671	1.1000e-003	0.0867	7.5000e-004	0.0875	0.0230	6.9000e-004	0.0237	0.0000	72.3446	72.3446	3.6500e-003	0.0000	72.4213
Total	**0.0239**	**0.0352**	**0.3671**	**1.1000e-003**	**0.0867**	**7.5000e-004**	**0.0875**	**0.0230**	**6.9000e-004**	**0.0237**	**0.0000**	**72.3446**	**72.3446**	**3.6500e-003**	**0.0000**	**72.4213**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.4613	14.8606	63.8516	0.2849	18.0527	0.4068	18.4594	4.8410	0.3754	5.2164	0.0000	18,584.4337	18,584.4337	0.4961	0.0000	18,594.8519
Unmitigated	5.4613	14.8606	63.8516	0.2849	18.0527	0.4068	18.4594	4.8410	0.3754	5.2164	0.0000	18,584.4337	18,584.4337	0.4961	0.0000	18,594.8519

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	2,112.05	628.05	259.70	5,268,469	5,268,469
Health Club	1,661.75	1,661.75	1661.75	3,871,917	3,871,917
Hospital	4,207.50	4,207.50	4207.50	16,311,811	16,311,811
Medical Office Building	5,222.00	1,792.00	310.00	10,453,991	10,453,991
Research & Development	3,721.10	1,206.50	704.85	9,902,753	9,902,753
Strip Mall	576.00	576.00	576.00	1,279,014	1,279,014
Unrefrigerated Warehouse-No Rail	89.20	89.20	89.20	382,286	382,286
Total	17,589.60	10,161.00	7,809.00	47,470,242	47,470,242

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	56.5	43.5	0
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	52.5	47.5	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.491908	0.059855	0.185077	0.131229	0.044940	0.007356	0.019164	0.046757	0.003019	0.003347	0.004084	0.000506	0.002760

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	14,997.0895	14,997.0895	0.3976	0.0823	15,030.9358
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,984.0973	15,984.0973	0.4237	0.0877	16,020.1711
NaturalGas Mitigated	0.1870	1.7001	1.4281	0.0102		0.1292	0.1292		0.1292	0.1292	0.0000	1,850.7641	1,850.7641	0.0355	0.0339	1,862.0275
NaturalGas Unmitigated	0.2138	1.9434	1.6324	0.0117		0.1477	0.1477		0.1477	0.1477	0.0000	2,115.5998	2,115.5998	0.0406	0.0388	2,128.4750

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					
Health Club	1.59885e+006	8.6200e-003	0.0784	0.0658	4.7000e-004		5.9600e-003	5.9600e-003		5.9600e-003	5.9600e-003	0.0000	85.3207	85.3207	1.6400e-003	1.5600e-003	85.8400
Hospital	2.09488e+007	0.1130	1.0269	0.8626	6.1600e-003		0.0780	0.0780		0.0780	0.0780	0.0000	1,117.9074	1,117.9074	0.0214	0.0205	1,124.7108
Medical Office Building	2.186e+006	0.0118	0.1072	0.0900	6.4000e-004		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	116.6533	116.6533	2.2400e-003	2.1400e-003	117.3632
Research & Development	1.19444e+007	0.0644	0.5855	0.4918	3.5100e-003		0.0445	0.0445		0.0445	0.0445	0.0000	637.3960	637.3960	0.0122	0.0117	641.2751
Strip Mall	34000	1.8000e-004	1.6700e-003	1.4000e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8144	1.8144	3.0000e-005	3.0000e-005	1.8254
Unrefrigerated Warehouse-No Rail	36400	2.0000e-004	1.7800e-003	1.5000e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9424	1.9424	4.0000e-005	4.0000e-005	1.9543
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.89645e+006	0.0156	0.1420	0.1193	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.5656	154.5656	2.9600e-003	2.8300e-003	155.5063
Total		**0.2138**	**1.9434**	**1.6325**	**0.0117**		**0.1477**	**0.1477**		**0.1477**	**0.1477**	**0.0000**	**2,115.5998**	**2,115.5998**	**0.0406**	**0.0388**	**2,128.4750**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Health Club	1.41576e+006	7.6300e-003	0.0694	0.0583	4.2000e-004		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	75.5504	75.5504	1.4500e-003	1.3900e-003	76.0101
Hospital	1.82809e+007	0.0986	0.8961	0.7527	5.3800e-003		0.0681	0.0681		0.0681	0.0681	0.0000	975.5392	975.5392	0.0187	0.0179	981.4762
Medical Office Building	1.8698e+006	0.0101	0.0917	0.0770	5.5000e-004		6.9700e-003	6.9700e-003		6.9700e-003	6.9700e-003	0.0000	99.7797	99.7797	1.9100e-003	1.8300e-003	100.3869
Research & Development	1.05766e+007	0.0570	0.5185	0.4355	3.1100e-003		0.0394	0.0394		0.0394	0.0394	0.0000	564.4055	564.4055	0.0108	0.0104	567.8404
Strip Mall	30370	1.6000e-004	1.4900e-003	1.2500e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6207	1.6207	3.0000e-005	3.0000e-005	1.6305
Unrefrigerated Warehouse-No Rail	31120	1.7000e-004	1.5300e-003	1.2800e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6607	1.6607	3.0000e-005	3.0000e-005	1.6708
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.47749e+006	0.0134	0.1215	0.1020	7.3000e-004		9.2300e-003	9.2300e-003		9.2300e-003	9.2300e-003	0.0000	132.2080	132.2080	2.5300e-003	2.4200e-003	133.0126
Total		**0.1870**	**1.7001**	**1.4281**	**0.0102**		**0.1292**	**0.1292**		**0.1292**	**0.1292**	**0.0000**	**1,850.7641**	**1,850.7641**	**0.0355**	**0.0339**	**1,862.0275**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	8.70269e+006	4,318.5353	0.1145	0.0237	4,328.2816
General Office Building	3.85045e+006	1,910.7090	0.0507	0.0105	1,915.0212
Health Club	1.02425e+006	508.2636	0.0135	2.7900e-003	509.4107
Hospital	7.59812e+006	3,770.4178	0.1000	0.0207	3,778.9270
Medical Office Building	2.906e+006	1,442.0445	0.0382	7.9100e-003	1,445.2990
Research & Development	7.65175e+006	3,797.0283	0.1007	0.0208	3,805.5977
Strip Mall	303400	150.5562	3.9900e-003	8.3000e-004	150.8960
Unrefrigerated Warehouse-No Rail	174400	86.5425	2.2900e-003	4.7000e-004	86.7378
Total		**15,984.0973**	**0.4237**	**0.0877**	**16,020.1711**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	7.94346e+006	3,941.7848	0.1045	0.0216	3,950.6808
General Office Building	3.62706e+006	1,799.8537	0.0477	9.8700e-003	1,803.9157
Health Club	972230	482.4497	0.0128	2.6500e-003	483.5386
Hospital	7.09373e+006	3,520.1221	0.0933	0.0193	3,528.0665
Medical Office Building	2.7374e+006	1,358.3802	0.0360	7.4500e-003	1,361.4458
Research & Development	7.38981e+006	3,667.0471	0.0972	0.0201	3,675.3230
Strip Mall	288700	143.2616	3.8000e-003	7.9000e-004	143.5849
Unrefrigerated Warehouse-No Rail	169660	84.1904	2.2300e-003	4.6000e-004	84.3804
Total		**14,997.0895**	**0.3976**	**0.0823**	**15,030.9358**

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	9.0036	5.6000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1222	0.1222	3.1000e-004	0.0000	0.1288
Unmitigated	9.0036	5.6000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1222	0.1222	3.1000e-004	0.0000	0.1288

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	3.3121					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.6859					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7100e-003	5.6000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1222	0.1222	3.1000e-004	0.0000	0.1288
Total	**9.0036**	**5.6000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.1222**	**0.1222**	**3.1000e-004**	**0.0000**	**0.1288**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.3121					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.6859					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7100e-003	5.6000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1222	0.1222	3.1000e-004	0.0000	0.1288
Total	**9.0036**	**5.6000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.1222**	**0.1222**	**3.1000e-004**	**0.0000**	**0.1288**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,510.2241	11.5490	0.2844	2,840.9025
Unmitigated	3,236.5902	14.4389	0.3560	3,650.1612

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	47.0994 / 28.8674	478.4207	1.5470	0.0388	522.9301
Health Club	5.02717 / 3.08117	51.0643	0.1651	4.1400e-003	55.8150
Hospital	40.4161 / 7.69831	316.4092	1.3250	0.0328	354.3904
Medical Office Building	25.0961 / 4.78021	196.4720	0.8228	0.0203	220.0561
Research & Development	312.226 / 0	2,116.4733	10.2274	0.2513	2,409.1482
Strip Mall	1.48145 / 0.907986	15.0481	0.0487	1.2200e-003	16.4481
Unrefrigerated Warehouse-No Rail	9.25 / 0	62.7027	0.3030	7.4400e-003	71.3734
Total		**3,236.5902**	**14.4389**	**0.3560**	**3,650.1612**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	37.6796 / 23.0939	374.2864	1.2374	0.0310	409.8748
Health Club	4.02173 / 2.46493	39.9495	0.1321	3.3100e-003	43.7481
Hospital	32.3329 / 6.15865	245.8762	1.0598	0.0262	276.2448
Medical Office Building	20.0769 / 3.82417	152.6750	0.6581	0.0163	171.5322
Research & Development	249.781 / 0	1,637.1617	8.1804	0.2007	1,871.1752
Strip Mall	1.18516 / 0.726389	11.7727	0.0389	9.7000e-004	12.8921
Unrefrigerated Warehouse-No Rail	7.4 / 0	48.5026	0.2424	5.9500e-003	55.4355
Total		**2,510.2241**	**11.5490**	**0.2844**	**2,840.9025**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	875.2585	51.7263	0.0000	1,961.5106
Unmitigated	875.2585	51.7263	0.0000	1,961.5106

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	246.45	50.0271	2.9565	0.0000	112.1140
Health Club	484.5	98.3491	5.8123	0.0000	220.4067
Hospital	1314	266.7301	15.7633	0.0000	597.7594
Medical Office Building	2160	438.4605	25.9123	0.0000	982.6182
Research & Development	48.26	9.7963	0.5790	0.0000	21.9542
Strip Mall	21	4.2628	0.2519	0.0000	9.5532
Unrefrigerated Warehouse-No Rail	37.6	7.6325	0.4511	0.0000	17.1048
Total		**875.2585**	**51.7263**	**0.0000**	**1,961.5106**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	246.45	50.0271	2.9565	0.0000	112.1140
Health Club	484.5	98.3491	5.8123	0.0000	220.4067
Hospital	1314	266.7301	15.7633	0.0000	597.7594
Medical Office Building	2160	438.4605	25.9123	0.0000	982.6182
Research & Development	48.26	9.7963	0.5790	0.0000	21.9542
Strip Mall	21	4.2628	0.2519	0.0000	9.5532
Unrefrigerated Warehouse-No Rail	37.6	7.6325	0.4511	0.0000	17.1048
Total		**875.2585**	**51.7263**	**0.0000**	**1,961.5106**

9.0 Operational Offroad

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

10.0 Vegetation

LAC + USC Medical Center Master Plan - 2040 Buildout

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	265.00	1000sqft	6.08	265,000.00	0
Hospital	450.00	Bed	7.39	322,090.91	0
Medical Office Building	200.00	1000sqft	4.59	200,000.00	0
Research & Development	635.00	1000sqft	14.58	635,000.00	0
Unrefrigerated Warehouse-No Rail	40.00	1000sqft	0.92	40,000.00	0
Enclosed Parking with Elevator	3,228.00	Space	29.05	1,291,200.00	0
Health Club	85.00	1000sqft	1.95	85,000.00	0
Strip Mall	20.00	1000sqft	0.46	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1094	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2040 Buildout; 2035 year assumed since max year available. LADWP CO2 emission factor based on year 2012 (https://data.lacity.org/A-Livable-and-Sustainable-City/LADWP-CO2-Generation/e5ni-eqan#column-menu).

Land Use - all land uses per TIA Table 5. Hospital ft2 based on caleemod default for 450 beds.

Construction Phase - default construction schedule (start/stop dates, phase lengths) based on acreage associated with Master Plan buildout

Trips and VMT - default worker, vendor, and haul trip numbers, fleet mix, and trip lengths

Demolition - 722,709 sf of existing uses to be demolished.

Grading - volume of soil movement for underground parking or any facilities unknown

Architectural Coating - Default non-res 250 g/L for coatings

Construction Off-road Equipment Mitigation - Tier 4 Final, watering 3x daily (unmitigated)

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConsumerProducts	ROG_EF	1.98E-05	1.09E-05
tblGrading	AcresOfGrading	275.00	65.02
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1094
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	DV_TP	39.00	43.50
tblVehicleTrips	DV_TP	40.00	47.50
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	52.00	56.50
tblVehicleTrips	PR_TP	45.00	52.50
tblVehicleTrips	ST_TR	20.87	19.55
tblVehicleTrips	ST_TR	8.14	9.35
tblVehicleTrips	ST_TR	42.04	28.80
tblVehicleTrips	ST_TR	2.59	2.23
tblVehicleTrips	SU_TR	26.73	19.55
tblVehicleTrips	SU_TR	7.19	9.35
tblVehicleTrips	SU_TR	20.43	28.80
tblVehicleTrips	SU_TR	2.59	2.23

tblVehicleTrips	WD_TR	11.01	7.97
tblVehicleTrips	WD_TR	32.93	19.55
tblVehicleTrips	WD_TR	11.81	9.35
tblVehicleTrips	WD_TR	36.13	26.11
tblVehicleTrips	WD_TR	8.11	5.86
tblVehicleTrips	WD_TR	44.32	28.80
tblVehicleTrips	WD_TR	2.59	2.23

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2015	14.0461	84.7584	157.2578	0.2740	18.2675	3.8044	21.3578	9.9840	3.5001	12.8271	0.0000	25,695.1424	25,695.1424	1.9509	0.0000	25,736.1119
2016	12.6492	77.0526	145.2216	0.2738	14.7222	2.7261	17.4483	3.9608	2.5461	6.5068	0.0000	25,139.9655	25,139.9655	1.4464	0.0000	25,170.3393
2017	11.4501	70.5940	135.1442	0.2736	14.7235	2.4643	17.1878	3.9613	2.3015	6.2627	0.0000	24,487.7693	24,487.7693	1.3781	0.0000	24,516.7091
2018	10.3254	63.8015	126.5230	0.2734	14.7238	2.1404	16.8643	3.9614	1.9997	5.9611	0.0000	23,859.2681	23,859.2681	1.3203	0.0000	23,886.9938
2019	9.4904	58.3199	119.7002	0.2724	14.7243	1.9016	16.6259	3.9616	1.7761	5.7377	0.0000	23,181.0432	23,181.0432	1.2683	0.0000	23,207.6772
2020	884.1317	52.0137	114.4863	0.2723	14.7249	1.6834	16.4083	3.9618	1.5721	5.5339	0.0000	22,487.9819	22,487.9819	1.2288	0.0000	22,513.7875
Total	**942.0929**	**406.5401**	**798.3331**	**1.6394**	**91.8862**	**14.7202**	**105.8922**	**29.7908**	**13.6955**	**42.8293**	**0.0000**	**144,851.1704**	**144,851.1704**	**8.5928**	**0.0000**	**145,031.6188**

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2015	10.7136	56.9574	155.9243	0.2740	14.7210	0.9439	15.6648	3.9603	0.8708	4.8310	0.0000	25,695.1424	25,695.1424	1.9509	0.0000	25,736.1119
2016	9.5695	50.7752	144.1260	0.2738	14.7222	0.7993	15.5215	3.9608	0.7382	4.6990	0.0000	25,139.9655	25,139.9655	1.4464	0.0000	25,170.3393
2017	8.6742	46.4172	134.4261	0.2736	14.7235	0.7237	15.4471	3.9613	0.6691	4.6304	0.0000	24,487.7693	24,487.7693	1.3781	0.0000	24,516.7091
2018	7.9832	42.7696	126.4013	0.2734	14.7238	0.6868	15.4106	3.9614	0.6355	4.5969	0.0000	23,859.2680	23,859.2680	1.3203	0.0000	23,886.9938
2019	7.4653	39.5838	119.9909	0.2724	14.7243	0.6571	15.3815	3.9616	0.6085	4.5700	0.0000	23,181.0432	23,181.0432	1.2683	0.0000	23,207.6772
2020	883.9193	35.1586	115.0889	0.2723	14.7249	0.6112	15.3361	3.9618	0.5662	4.5280	0.0000	22,487.9819	22,487.9819	1.2288	0.0000	22,513.7875
Total	**928.3249**	**271.6617**	**795.9575**	**1.6394**	**88.3397**	**4.4219**	**92.7615**	**23.7670**	**4.0883**	**27.8553**	**0.0000**	**144,851.1704**	**144,851.1704**	**8.5928**	**0.0000**	**145,031.6188**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.46**	**33.18**	**0.30**	**0.00**	**3.86**	**69.96**	**12.40**	**20.22**	**70.15**	**34.96**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	49.3493	4.4900e-003	0.4998	4.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		1.0774	1.0774	2.7800e-003		1.1357
Energy	1.1714	10.6486	8.9449	0.0639		0.8093	0.8093		0.8093	0.8093		12,778.3538	12,778.3538	0.2449	0.2343	12,856.1208
Mobile	36.6105	92.6071	407.9568	1.7862	116.6839	2.5882	119.2721	31.2389	2.3882	33.6271		128,555.3265	128,555.3265	3.4772		128,628.3468
Total	**87.1311**	**103.2602**	**417.4014**	**1.8501**	**116.6839**	**3.3993**	**120.0832**	**31.2389**	**3.1993**	**34.4382**		**141,334.7577**	**141,334.7577**	**3.7249**	**0.2343**	**141,485.6033**

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	lb/day										lb/day					
Area	49.3493	4.4900e-003	0.4998	4.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		1.0774	1.0774	2.7800e-003		1.1357
Energy	1.0247	9.3156	7.8251	0.0559		0.7080	0.7080		0.7080	0.7080		11,178.7297	11,178.7297	0.2143	0.2049	11,246.7616
Mobile	36.6105	92.6071	407.9568	1.7862	116.6839	2.5882	119.2721	31.2389	2.3882	33.6271		128,555.3265	128,555.3265	3.4772		128,628.3468
Total	**86.9845**	**101.9272**	**416.2817**	**1.8421**	**116.6839**	**3.2980**	**119.9819**	**31.2389**	**3.0980**	**34.3369**		**139,735.1335**	**139,735.1335**	**3.6942**	**0.2049**	**139,876.2440**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.17**	**1.29**	**0.27**	**0.43**	**0.00**	**2.98**	**0.08**	**0.00**	**3.17**	**0.29**	**0.00**	**1.13**	**1.13**	**0.82**	**12.52**	**1.14**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	4/8/2015	5	70	
2	Site Preparation	Site Preparation	4/9/2015	6/3/2015	5	40	
3	Grading	Grading	6/4/2015	11/4/2015	5	110	
4	Building Construction	Building Construction	11/5/2015	2/5/2020	5	1110	
5	Paving	Paving	2/6/2020	5/20/2020	5	75	
6	Architectural Coating	Architectural Coating	5/21/2020	9/2/2020	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 65.02

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,287,436; Non-Residential Outdoor: 1,429,145 (Architectural Coating – sqft)

OffRoad Equipment

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	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	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	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	3,287.00	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	1,056.00	468.00	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	211.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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	lb/day										lb/day					
Fugitive Dust					10.1629	0.0000	10.1629	1.5388	0.0000	1.5388			0.0000			0.0000
Off-Road	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	**4.5083**	**48.3629**	**36.0738**	**0.0399**	**10.1629**	**2.4508**	**12.6137**	**1.5388**	**2.2858**	**3.8245**		**4,127.1934**	**4,127.1934**	**1.1188**		**4,150.6886**

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	lb/day										lb/day					
Hauling	0.9988	15.4239	11.6415	0.0351	0.8176	0.2465	1.0640	0.2238	0.2267	0.4506		3,565.5026	3,565.5026	0.0294		3,566.1201
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
Worker	0.0771	0.1031	1.0807	2.0600e-003	0.1677	1.6800e-003	0.1693	0.0445	1.5300e-003	0.0460		180.0161	180.0161	0.0109		180.2447
Total	**1.0759**	**15.5270**	**12.7222**	**0.0371**	**0.9852**	**0.2482**	**1.2334**	**0.2683**	**0.2282**	**0.4966**		**3,745.5187**	**3,745.5187**	**0.0403**		**3,746.3648**

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	lb/day										lb/day					
Fugitive Dust					3.9635	0.0000	3.9635	0.6001	0.0000	0.6001			0.0000			0.0000
Off-Road	0.4739	2.0535	23.8257	0.0399		0.0632	0.0632		0.0632	0.0632	0.0000	4,127.1934	4,127.1934	1.1188		4,150.6886
Total	**0.4739**	**2.0535**	**23.8257**	**0.0399**	**3.9635**	**0.0632**	**4.0267**	**0.6001**	**0.0632**	**0.6633**	**0.0000**	**4,127.1934**	**4,127.1934**	**1.1188**		**4,150.6886**

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	lb/day										lb/day					
Hauling	0.9988	15.4239	11.6415	0.0351	0.8176	0.2465	1.0640	0.2238	0.2267	0.4506		3,565.5026	3,565.5026	0.0294		3,566.1201
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
Worker	0.0771	0.1031	1.0807	2.0600e-003	0.1677	1.6800e-003	0.1693	0.0445	1.5300e-003	0.0460		180.0161	180.0161	0.0109		180.2447
Total	**1.0759**	**15.5270**	**12.7222**	**0.0371**	**0.9852**	**0.2482**	**1.2334**	**0.2683**	**0.2282**	**0.4966**		**3,745.5187**	**3,745.5187**	**0.0403**		**3,746.3648**

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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5225
Total	**5.2609**	**56.8897**	**42.6318**	**0.0391**	**18.0663**	**3.0883**	**21.1545**	**9.9307**	**2.8412**	**12.7719**		**4,111.7444**	**4,111.7444**	**1.2275**		**4,137.5225**

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	lb/day										lb/day					
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
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
Worker	0.0925	0.1238	1.2968	2.4700e-003	0.2012	2.0100e-003	0.2032	0.0534	1.8400e-003	0.0552		216.0194	216.0194	0.0131		216.2936
Total	**0.0925**	**0.1238**	**1.2968**	**2.4700e-003**	**0.2012**	**2.0100e-003**	**0.2032**	**0.0534**	**1.8400e-003**	**0.0552**		**216.0194**	**216.0194**	**0.0131**		**216.2936**

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	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	0.4757	2.0615	21.2415	0.0391		0.0634	0.0634		0.0634	0.0634	0.0000	4,111.7444	4,111.7444	1.2275		4,137.5224
Total	**0.4757**	**2.0615**	**21.2415**	**0.0391**	**7.0458**	**0.0634**	**7.1093**	**3.8730**	**0.0634**	**3.9364**	**0.0000**	**4,111.7444**	**4,111.7444**	**1.2275**		**4,137.5224**

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	lb/day										lb/day					
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
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
Worker	0.0925	0.1238	1.2968	2.4700e-003	0.2012	2.0100e-003	0.2032	0.0534	1.8400e-003	0.0552		216.0194	216.0194	0.0131		216.2936
Total	**0.0925**	**0.1238**	**1.2968**	**2.4700e-003**	**0.2012**	**2.0100e-003**	**0.2032**	**0.0534**	**1.8400e-003**	**0.0552**		**216.0194**	**216.0194**	**0.0131**		**216.2936**

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	lb/day										lb/day					
Fugitive Dust					6.6489	0.0000	6.6489	3.3779	0.0000	3.3779			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	**6.7751**	**79.0467**	**50.8400**	**0.0618**	**6.6489**	**3.8022**	**10.4511**	**3.3779**	**3.4980**	**6.8759**		**6,486.2433**	**6,486.2433**	**1.9364**		**6,526.9080**

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	lb/day										lb/day					
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
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
Worker	0.1028	0.1375	1.4409	2.7400e-003	0.2236	2.2300e-003	0.2258	0.0593	2.0500e-003	0.0613		240.0215	240.0215	0.0145		240.3263
Total	**0.1028**	**0.1375**	**1.4409**	**2.7400e-003**	**0.2236**	**2.2300e-003**	**0.2258**	**0.0593**	**2.0500e-003**	**0.0613**		**240.0215**	**240.0215**	**0.0145**		**240.3263**

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	lb/day										lb/day					
Fugitive Dust					2.5931	0.0000	2.5931	1.3174	0.0000	1.3174			0.0000			0.0000
Off-Road	0.7564	3.2778	34.7787	0.0618		0.1009	0.1009		0.1009	0.1009	0.0000	6,486.2433	6,486.2433	1.9364		6,526.9080
Total	**0.7564**	**3.2778**	**34.7787**	**0.0618**	**2.5931**	**0.1009**	**2.6940**	**1.3174**	**0.1009**	**1.4183**	**0.0000**	**6,486.2433**	**6,486.2433**	**1.9364**		**6,526.9080**

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	lb/day										lb/day					
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
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
Worker	0.1028	0.1375	1.4409	2.7400e-003	0.2236	2.2300e-003	0.2258	0.0593	2.0500e-003	0.0613		240.0215	240.0215	0.0145		240.3263
Total	**0.1028**	**0.1375**	**1.4409**	**2.7400e-003**	**0.2236**	**2.2300e-003**	**0.2258**	**0.0593**	**2.0500e-003**	**0.0613**		**240.0215**	**240.0215**	**0.0145**		**240.3263**

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	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	**3.6591**	**30.0299**	**18.7446**	**0.0268**		**2.1167**	**2.1167**		**1.9904**	**1.9904**		**2,689.5771**	**2,689.5771**	**0.6748**		**2,703.7483**

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	lb/day										lb/day					
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
Vendor	4.9595	47.4687	62.4324	0.1023	2.9174	0.7853	3.7027	0.8299	0.7221	1.5520		10,332.4297	10,332.4297	0.0859		10,334.2342
Worker	5.4275	7.2598	76.0809	0.1449	11.8036	0.1179	11.9215	3.1304	0.1081	3.2384		12,673.1356	12,673.1356	0.7662		12,689.2265
Total	**10.3871**	**54.7285**	**138.5133**	**0.2472**	**14.7210**	**0.9032**	**15.6242**	**3.9603**	**0.8301**	**4.7904**		**23,005.5653**	**23,005.5653**	**0.8522**		**23,023.4607**

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	lb/day										lb/day					
Off-Road	0.3265	2.2289	17.4110	0.0268		0.0406	0.0406		0.0406	0.0406	0.0000	2,689.5771	2,689.5771	0.6748		2,703.7483
Total	**0.3265**	**2.2289**	**17.4110**	**0.0268**		**0.0406**	**0.0406**		**0.0406**	**0.0406**	**0.0000**	**2,689.5771**	**2,689.5771**	**0.6748**		**2,703.7483**

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	lb/day										lb/day					
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
Vendor	4.9595	47.4687	62.4324	0.1023	2.9174	0.7853	3.7027	0.8299	0.7221	1.5520		10,332.4297	10,332.4297	0.0859		10,334.2342
Worker	5.4275	7.2598	76.0809	0.1449	11.8036	0.1179	11.9215	3.1304	0.1081	3.2384		12,673.1356	12,673.1356	0.7662		12,689.2265
Total	**10.3871**	**54.7285**	**138.5133**	**0.2472**	**14.7210**	**0.9032**	**15.6242**	**3.9603**	**0.8301**	**4.7904**		**23,005.5653**	**23,005.5653**	**0.8522**		**23,023.4607**

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	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	**3.4062**	**28.5063**	**18.5066**	**0.0268**		**1.9674**	**1.9674**		**1.8485**	**1.8485**		**2,669.2864**	**2,669.2864**	**0.6620**		**2,683.1890**

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	lb/day										lb/day					
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
Vendor	4.3500	41.9823	57.9300	0.1021	2.9186	0.6470	3.5657	0.8304	0.5950	1.4254		10,220.7507	10,220.7507	0.0778		10,222.3851
Worker	4.8930	6.5640	68.7850	0.1448	11.8036	0.1116	11.9152	3.1304	0.1026	3.2330		12,249.9285	12,249.9285	0.7065		12,264.7652
Total	**9.2430**	**48.5463**	**126.7150**	**0.2470**	**14.7222**	**0.7587**	**15.4809**	**3.9608**	**0.6976**	**4.6584**		**22,470.6791**	**22,470.6791**	**0.7843**		**22,487.1503**

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	lb/day										lb/day					
Off-Road	0.3265	2.2289	17.4110	0.0268		0.0406	0.0406		0.0406	0.0406	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	**0.3265**	**2.2289**	**17.4110**	**0.0268**		**0.0406**	**0.0406**		**0.0406**	**0.0406**	**0.0000**	**2,669.2864**	**2,669.2864**	**0.6620**		**2,683.1890**

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	lb/day										lb/day					
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
Vendor	4.3500	41.9823	57.9300	0.1021	2.9186	0.6470	3.5657	0.8304	0.5950	1.4254		10,220.7507	10,220.7507	0.0778		10,222.3851
Worker	4.8930	6.5640	68.7850	0.1448	11.8036	0.1116	11.9152	3.1304	0.1026	3.2330		12,249.9285	12,249.9285	0.7065		12,264.7652
Total	**9.2430**	**48.5463**	**126.7150**	**0.2470**	**14.7222**	**0.7587**	**15.4809**	**3.9608**	**0.6976**	**4.6584**		**22,470.6791**	**22,470.6791**	**0.7843**		**22,487.1503**

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	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**		**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

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	lb/day										lb/day					
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
Vendor	3.9601	38.2517	54.9466	0.1020	2.9199	0.5762	3.4960	0.8309	0.5299	1.3608		10,057.3500	10,057.3500	0.0754		10,058.9337
Worker	4.3876	5.9366	62.0684	0.1448	11.8036	0.1069	11.9105	3.1304	0.0986	3.2290		11,790.6140	11,790.6140	0.6530		11,804.3264
Total	**8.3477**	**44.1883**	**117.0151**	**0.2468**	**14.7235**	**0.6831**	**15.4065**	**3.9613**	**0.6285**	**4.5898**		**21,847.9640**	**21,847.9640**	**0.7284**		**21,863.2601**

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	lb/day										lb/day					
Off-Road	0.3265	2.2289	17.4110	0.0268		0.0406	0.0406		0.0406	0.0406	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**0.3265**	**2.2289**	**17.4110**	**0.0268**		**0.0406**	**0.0406**		**0.0406**	**0.0406**	**0.0000**	**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

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	lb/day										lb/day					
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
Vendor	3.9601	38.2517	54.9466	0.1020	2.9199	0.5762	3.4960	0.8309	0.5299	1.3608		10,057.3500	10,057.3500	0.0754		10,058.9337
Worker	4.3876	5.9366	62.0684	0.1448	11.8036	0.1069	11.9105	3.1304	0.0986	3.2290		11,790.6140	11,790.6140	0.6530		11,804.3264
Total	**8.3477**	**44.1883**	**117.0151**	**0.2468**	**14.7235**	**0.6831**	**15.4065**	**3.9613**	**0.6285**	**4.5898**		**21,847.9640**	**21,847.9640**	**0.7284**		**21,863.2601**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	3.7156	35.1525	52.8367	0.1019	2.9202	0.5426	3.4628	0.8310	0.4991	1.3301		9,891.0805	9,891.0805	0.0751		9,892.6570
Worker	3.9411	5.3882	56.1536	0.1447	11.8036	0.1036	11.9072	3.1304	0.0958	3.2262		11,358.2486	11,358.2486	0.6065		11,370.9851
Total	**7.6567**	**40.5407**	**108.9903**	**0.2466**	**14.7238**	**0.6462**	**15.3700**	**3.9614**	**0.5949**	**4.5563**		**21,249.3291**	**21,249.3291**	**0.6816**		**21,263.6421**

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	lb/day										lb/day					
Off-Road	0.3265	2.2289	17.4110	0.0268		0.0406	0.0406		0.0406	0.0406	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**0.3265**	**2.2289**	**17.4110**	**0.0268**		**0.0406**	**0.0406**		**0.0406**	**0.0406**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	3.7156	35.1525	52.8367	0.1019	2.9202	0.5426	3.4628	0.8310	0.4991	1.3301		9,891.0805	9,891.0805	0.0751		9,892.6570
Worker	3.9411	5.3882	56.1536	0.1447	11.8036	0.1036	11.9072	3.1304	0.0958	3.2262		11,358.2486	11,358.2486	0.6065		11,370.9851
Total	**7.6567**	**40.5407**	**108.9903**	**0.2466**	**14.7238**	**0.6462**	**15.3700**	**3.9614**	**0.5949**	**4.5563**		**21,249.3291**	**21,249.3291**	**0.6816**		**21,263.6421**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083		2,580.7618	2,580.7618	0.6279		2,593.9479
Total	**2.3516**	**20.9650**	**17.1204**	**0.0268**		**1.2850**	**1.2850**		**1.2083**	**1.2083**		**2,580.7618**	**2,580.7618**	**0.6279**		**2,593.9479**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	3.5203	32.4150	51.1662	0.1014	2.9207	0.5155	3.4363	0.8312	0.4743	1.3055		9,687.7696	9,687.7696	0.0735		9,689.3131
Worker	3.6186	4.9399	51.4137	0.1441	11.8036	0.1010	11.9046	3.1304	0.0936	3.2240		10,912.5118	10,912.5118	0.5669		10,924.4162
Total	**7.1388**	**37.3549**	**102.5799**	**0.2456**	**14.7243**	**0.6165**	**15.3409**	**3.9616**	**0.5679**	**4.5294**		**20,600.2814**	**20,600.2814**	**0.6404**		**20,613.7293**

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	lb/day										lb/day					
Off-Road	0.3265	2.2289	17.4110	0.0268		0.0406	0.0406		0.0406	0.0406	0.0000	2,580.7618	2,580.7618	0.6279		2,593.9479
Total	**0.3265**	**2.2289**	**17.4110**	**0.0268**		**0.0406**	**0.0406**		**0.0406**	**0.0406**	**0.0000**	**2,580.7618**	**2,580.7618**	**0.6279**		**2,593.9479**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	3.5203	32.4150	51.1662	0.1014	2.9207	0.5155	3.4363	0.8312	0.4743	1.3055		9,687.7696	9,687.7696	0.0735		9,689.3131
Worker	3.6186	4.9399	51.4137	0.1441	11.8036	0.1010	11.9046	3.1304	0.0936	3.2240		10,912.5118	10,912.5118	0.5669		10,924.4162
Total	**7.1388**	**37.3549**	**102.5799**	**0.2456**	**14.7243**	**0.6165**	**15.3409**	**3.9616**	**0.5679**	**4.5294**		**20,600.2814**	**20,600.2814**	**0.6404**		**20,613.7293**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.4799	2,542.4799	0.6194		2,555.4880
Total	**2.1113**	**19.0839**	**16.8084**	**0.0268**		**1.1128**	**1.1128**		**1.0465**	**1.0465**		**2,542.4799**	**2,542.4799**	**0.6194**		**2,555.4880**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	3.3634	28.3514	49.8437	0.1013	2.9213	0.4706	3.3919	0.8314	0.4330	1.2644		9,471.8169	9,471.8169	0.0721		9,473.3308
Worker	3.3922	4.5784	47.8342	0.1441	11.8036	0.1000	11.9035	3.1304	0.0927	3.2230		10,473.6851	10,473.6851	0.5373		10,484.9686
Total	**6.7556**	**32.9297**	**97.6778**	**0.2455**	**14.7249**	**0.5706**	**15.2954**	**3.9618**	**0.5256**	**4.4874**		**19,945.5020**	**19,945.5020**	**0.6094**		**19,958.2995**

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	lb/day										lb/day					
Off-Road	0.3265	2.2289	17.4110	0.0268		0.0406	0.0406		0.0406	0.0406	0.0000	2,542.4799	2,542.4799	0.6194		2,555.4880
Total	**0.3265**	**2.2289**	**17.4110**	**0.0268**		**0.0406**	**0.0406**		**0.0406**	**0.0406**	**0.0000**	**2,542.4799**	**2,542.4799**	**0.6194**		**2,555.4880**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	3.3634	28.3514	49.8437	0.1013	2.9213	0.4706	3.3919	0.8314	0.4330	1.2644		9,471.8169	9,471.8169	0.0721		9,473.3308
Worker	3.3922	4.5784	47.8342	0.1441	11.8036	0.1000	11.9035	3.1304	0.0927	3.2230		10,473.6851	10,473.6851	0.5373		10,484.9686
Total	**6.7556**	**32.9297**	**97.6778**	**0.2455**	**14.7249**	**0.5706**	**15.2954**	**3.9618**	**0.5256**	**4.4874**		**19,945.5020**	**19,945.5020**	**0.6094**		**19,958.2995**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799		2,160.7571	2,160.7571	0.6988		2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3301**	**13.7845**	**14.3523**	**0.0223**		**0.7390**	**0.7390**		**0.6799**	**0.6799**		**2,160.7571**	**2,160.7571**	**0.6988**		**2,175.4326**

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0482	0.0650	0.6795	2.0500e-003	0.1677	1.4200e-003	0.1691	0.0445	1.3200e-003	0.0458		148.7739	148.7739	7.6300e-003		148.9342
Total	**0.0482**	**0.0650**	**0.6795**	**2.0500e-003**	**0.1677**	**1.4200e-003**	**0.1691**	**0.0445**	**1.3200e-003**	**0.0458**		**148.7739**	**148.7739**	**7.6300e-003**		**148.9342**

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	lb/day										lb/day					
Off-Road	0.2745	1.1895	16.9276	0.0223		0.0366	0.0366		0.0366	0.0366	0.0000	2,160.7571	2,160.7571	0.6988		2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2745**	**1.1895**	**16.9276**	**0.0223**		**0.0366**	**0.0366**		**0.0366**	**0.0366**	**0.0000**	**2,160.7571**	**2,160.7571**	**0.6988**		**2,175.4326**

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0482	0.0650	0.6795	2.0500e-003	0.1677	1.4200e-003	0.1691	0.0445	1.3200e-003	0.0458		148.7739	148.7739	7.6300e-003		148.9342
Total	**0.0482**	**0.0650**	**0.6795**	**2.0500e-003**	**0.1677**	**1.4200e-003**	**0.1691**	**0.0445**	**1.3200e-003**	**0.0458**		**148.7739**	**148.7739**	**7.6300e-003**		**148.9342**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	883.2118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9057
Total	**883.4539**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9057**

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.6778	0.9148	9.5578	0.0288	2.3585	0.0200	2.3785	0.6255	0.0185	0.6440		2,092.7534	2,092.7534	0.1074		2,095.0079
Total	**0.6778**	**0.9148**	**9.5578**	**0.0288**	**2.3585**	**0.0200**	**2.3785**	**0.6255**	**0.0185**	**0.6440**		**2,092.7534**	**2,092.7534**	**0.1074**		**2,095.0079**

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	lb/day										lb/day					
Archit. Coating	883.2118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218		281.9057
Total	**883.2415**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9057**

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.6778	0.9148	9.5578	0.0288	2.3585	0.0200	2.3785	0.6255	0.0185	0.6440		2,092.7534	2,092.7534	0.1074		2,095.0079
Total	**0.6778**	**0.9148**	**9.5578**	**0.0288**	**2.3585**	**0.0200**	**2.3785**	**0.6255**	**0.0185**	**0.6440**		**2,092.7534**	**2,092.7534**	**0.1074**		**2,095.0079**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.6105	92.6071	407.9568	1.7862	116.6839	2.5882	119.2721	31.2389	2.3882	33.6271		128,555.3265	128,555.3265	3.4772		128,628.3468
Unmitigated	36.6105	92.6071	407.9568	1.7862	116.6839	2.5882	119.2721	31.2389	2.3882	33.6271		128,555.3265	128,555.3265	3.4772		128,628.3468

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	2,112.05	628.05	259.70	5,268,469	5,268,469
Health Club	1,661.75	1,661.75	1661.75	3,871,917	3,871,917
Hospital	4,207.50	4,207.50	4207.50	16,311,811	16,311,811
Medical Office Building	5,222.00	1,792.00	310.00	10,453,991	10,453,991
Research & Development	3,721.10	1,206.50	704.85	9,902,753	9,902,753
Strip Mall	576.00	576.00	576.00	1,279,014	1,279,014
Unrefrigerated Warehouse-No Rail	89.20	89.20	89.20	382,286	382,286
Total	17,589.60	10,161.00	7,809.00	47,470,242	47,470,242

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	56.5	43.5	0
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	52.5	47.5	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.491908	0.059855	0.185077	0.131229	0.044940	0.007356	0.019164	0.046757	0.003019	0.003347	0.004084	0.000506	0.002760

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0247	9.3156	7.8251	0.0559		0.7080	0.7080		0.7080	0.7080		11,178.7297	11,178.7297	0.2143	0.2049	11,246.7616
NaturalGas Unmitigated	1.1714	10.6486	8.9449	0.0639		0.8093	0.8093		0.8093	0.8093		12,778.3538	12,778.3538	0.2449	0.2343	12,856.1208

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	7935.48	0.0856	0.7780	0.6535	4.6700e-003		0.0591	0.0591		0.0591	0.0591		933.5858	933.5858	0.0179	0.0171	939.2675
Health Club	4380.41	0.0472	0.4295	0.3607	2.5800e-003		0.0326	0.0326		0.0326	0.0326		515.3425	515.3425	9.8800e-003	9.4500e-003	518.4788
Hospital	57394	0.6190	5.6269	4.7266	0.0338		0.4276	0.4276		0.4276	0.4276		6,752.2298	6,752.2298	0.1294	0.1238	6,793.3227
Medical Office Building	5989.04	0.0646	0.5872	0.4932	3.5200e-003		0.0446	0.0446		0.0446	0.0446		704.5931	704.5931	0.0135	0.0129	708.8811
Research & Development	32724.2	0.3529	3.2083	2.6949	0.0193		0.2438	0.2438		0.2438	0.2438		3,849.9114	3,849.9114	0.0738	0.0706	3,873.3413
Strip Mall	93.1507	1.0000e-003	9.1300e-003	7.6700e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9589	10.9589	2.1000e-004	2.0000e-004	11.0256
Unrefrigerated Warehouse-No Rail	99.726	1.0800e-003	9.7800e-003	8.2100e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004		11.7325	11.7325	2.2000e-004	2.2000e-004	11.8039
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.1714**	**10.6486**	**8.9449**	**0.0639**		**0.8093**	**0.8093**		**0.8093**	**0.8093**		**12,778.3538**	**12,778.3538**	**0.2449**	**0.2343**	**12,856.1208**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	3.87879	0.0418	0.3803	0.3194	2.2800e-003		0.0289	0.0289		0.0289	0.0289		456.3288	456.3288	8.7500e-003	8.3700e-003	459.1059
Hospital	50.0847	0.5401	4.9103	4.1246	0.0295		0.3732	0.3732		0.3732	0.3732		5,892.3171	5,892.3171	0.1129	0.1080	5,928.1768
Medical Office Building	5.12274	0.0553	0.5022	0.4219	3.0100e-003		0.0382	0.0382		0.0382	0.0382		602.6753	602.6753	0.0116	0.0111	606.3430
Research & Development	28.9769	0.3125	2.8409	2.3863	0.0171		0.2159	0.2159		0.2159	0.2159		3,409.0443	3,409.0443	0.0653	0.0625	3,429.7912
Strip Mall	0.0832055	9.0000e-004	8.1600e-003	6.8500e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		9.7889	9.7889	1.9000e-004	1.8000e-004	9.8485
Unrefrigerated Warehouse-No Rail	0.0852603	9.2000e-004	8.3600e-003	7.0200e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0306	10.0306	1.9000e-004	1.8000e-004	10.0917
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	6.78763	0.0732	0.6655	0.5590	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.5447	798.5447	0.0153	0.0146	803.4045
Total		**1.0247**	**9.3156**	**7.8251**	**0.0559**		**0.7080**	**0.7080**		**0.7080**	**0.7080**		**11,178.7297**	**11,178.7297**	**0.2143**	**0.2050**	**11,246.7615**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	49.3493	4.4900e-003	0.4998	4.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		1.0774	1.0774	2.7800e-003		1.1357
Unmitigated	49.3493	4.4900e-003	0.4998	4.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		1.0774	1.0774	2.7800e-003		1.1357

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	18.1482					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	31.1554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0457	4.4900e-003	0.4998	4.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		1.0774	1.0774	2.7800e-003		1.1357
Total	**49.3493**	**4.4900e-003**	**0.4998**	**4.0000e-005**		**1.7700e-003**	**1.7700e-003**		**1.7700e-003**	**1.7700e-003**		**1.0774**	**1.0774**	**2.7800e-003**		**1.1357**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	18.1482					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	31.1554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0457	4.4900e-003	0.4998	4.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		1.0774	1.0774	2.7800e-003		1.1357
Total	**49.3493**	**4.4900e-003**	**0.4998**	**4.0000e-005**		**1.7700e-003**	**1.7700e-003**		**1.7700e-003**	**1.7700e-003**		**1.0774**	**1.0774**	**2.7800e-003**		**1.1357**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

LAC + USC Medical Center Master Plan - 2040 Buildout

Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.59	0.00	0.00	0.82	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.24	0.33	0.00	0.00	0.69	0.69	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.73	0.72	0.25	0.00	0.88	0.88	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.88	0.96	0.31	0.00	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.77	0.91	-0.17	0.00	0.95	0.94	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.89	0.96	0.49	0.00	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 4 Final	1	1	No Change	0.00
Concrete/Industrial Saws	Diesel	Tier 4 Final	1	1	No Change	0.00
Cranes	Diesel	Tier 4 Final	1	1	No Change	0.00
Excavators	Diesel	Tier 4 Final	5	5	No Change	0.00
Forklifts	Diesel	Tier 4 Final	3	3	No Change	0.00
Generator Sets	Diesel	Tier 4 Final	1	1	No Change	0.00
Graders	Diesel	Tier 4 Final	1	1	No Change	0.00
Pavers	Diesel	Tier 4 Final	2	2	No Change	0.00
Paving Equipment	Diesel	Tier 4 Final	2	2	No Change	0.00
Rollers	Diesel	Tier 4 Final	2	2	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Final	6	6	No Change	0.00
Scrapers	Diesel	Tier 4 Final	2	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	9	9	No Change	0.00
Welders	Diesel	Tier 4 Final	1	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	9.08000E-003	6.31400E-002	6.86800E-002	1.10000E-004	4.16000E-003	4.16000E-003	0.00000E+000	9.57470E+000	9.57470E+000	7.40000E-004	0.00000E+000	9.59027E+000
Concrete/Industrial Saws	2.49300E-002	1.74800E-001	1.33120E-001	2.20000E-004	1.35800E-002	1.35800E-002	0.00000E+000	1.88180E+001	1.88180E+001	2.02000E-003	0.00000E+000	1.88604E+001
Cranes	2.94360E-001	3.50037E+000	1.27082E+000	2.74000E-003	1.54330E-001	1.41990E-001	0.00000E+000	2.52307E+002	2.52307E+002	7.79100E-002	0.00000E+000	2.53943E+002
Excavators	8.95600E-002	1.04594E+000	7.39420E-001	1.14000E-003	5.16300E-002	4.75000E-002	0.00000E+000	1.08358E+002	1.08358E+002	3.23500E-002	0.00000E+000	1.09037E+002
Forklifts	3.23930E-001	2.83066E+000	2.04783E+000	2.54000E-003	2.29700E-001	2.11320E-001	0.00000E+000	2.34203E+002	2.34203E+002	7.23200E-002	0.00000E+000	2.35722E+002
Generator Sets	3.01240E-001	2.39349E+000	2.08855E+000	3.65000E-003	1.57270E-001	1.57270E-001	0.00000E+000	3.13690E+002	3.13690E+002	2.42900E-002	0.00000E+000	3.14200E+002
Graders	5.84000E-002	5.97730E-001	2.73940E-001	3.40000E-004	3.36100E-002	3.09200E-002	0.00000E+000	3.27844E+001	3.27844E+001	9.79000E-003	0.00000E+000	3.29900E+001
Pavers	1.89400E-002	2.02670E-001	2.09010E-001	3.40000E-004	9.85000E-003	9.06000E-003	0.00000E+000	2.97848E+001	2.97848E+001	9.63000E-003	0.00000E+000	2.99871E+001
Paving Equipment	1.53200E-002	1.58170E-001	1.87200E-001	3.00000E-004	7.91000E-003	7.28000E-003	0.00000E+000	2.64365E+001	2.64365E+001	8.55000E-003	0.00000E+000	2.66161E+001
Rollers	1.56100E-002	1.56090E-001	1.42000E-001	2.00000E-004	9.95000E-003	9.15000E-003	0.00000E+000	1.72864E+001	1.72864E+001	5.59000E-003	0.00000E+000	1.74038E+001
Rubber Tired Dozers	2.35530E-001	2.66160E+000	2.03064E+000	1.64000E-003	1.24180E-001	1.14250E-001	0.00000E+000	1.56741E+002	1.56741E+002	4.67900E-002	0.00000E+000	1.57724E+002
Scrapers	1.58740E-001	2.04588E+000	1.27343E+000	1.64000E-003	8.26300E-002	7.60200E-002	0.00000E+000	1.56130E+002	1.56130E+002	4.66100E-002	0.00000E+000	1.57109E+002
Tractors/Loaders/Backhoes	4.90690E-001	4.76396E+000	3.90185E+000	5.12000E-003	3.51280E-001	3.23180E-001	0.00000E+000	4.73636E+002	4.73636E+002	1.45660E-001	0.00000E+000	4.76695E+002
Welders	2.63680E-001	9.51620E-001	1.04872E+000	1.42000E-003	6.73200E-002	6.73200E-002	0.00000E+000	1.04462E+002	1.04462E+002	2.14800E-002	0.00000E+000	1.04914E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	1.11000E-003	4.83000E-003	6.87200E-002	1.10000E-004	1.50000E-004	1.50000E-004	0.00000E+000	9.57469E+000	9.57469E+000	7.40000E-004	0.00000E+000	9.59026E+000
Concrete/Industrial Saws	2.19000E-003	9.49000E-003	1.35050E-001	2.20000E-004	2.90000E-004	2.90000E-004	0.00000E+000	1.88180E+001	1.88180E+001	2.02000E-003	0.00000E+000	1.88604E+001
Cranes	3.36800E-002	1.45950E-001	1.23496E+000	2.74000E-003	4.49000E-003	4.49000E-003	0.00000E+000	2.52307E+002	2.52307E+002	7.79100E-002	0.00000E+000	2.53943E+002
Excavators	1.40100E-002	6.06900E-002	8.63700E-001	1.14000E-003	1.87000E-003	1.87000E-003	0.00000E+000	1.08358E+002	1.08358E+002	3.23500E-002	0.00000E+000	1.09037E+002
Forklifts	3.13600E-002	1.35900E-001	1.93401E+000	2.54000E-003	4.18000E-003	4.18000E-003	0.00000E+000	2.34203E+002	2.34203E+002	7.23200E-002	0.00000E+000	2.35721E+002
Generator Sets	3.65100E-002	1.58200E-001	2.25128E+000	3.65000E-003	4.87000E-003	4.87000E-003	0.00000E+000	3.13690E+002	3.13690E+002	2.42900E-002	0.00000E+000	3.14200E+002
Graders	4.15000E-003	1.79900E-002	2.56050E-001	3.40000E-004	5.50000E-004	5.50000E-004	0.00000E+000	3.27844E+001	3.27844E+001	9.79000E-003	0.00000E+000	3.29899E+001
Pavers	4.17000E-003	1.80600E-002	2.56950E-001	3.40000E-004	5.60000E-004	5.60000E-004	0.00000E+000	2.97848E+001	2.97848E+001	9.63000E-003	0.00000E+000	2.99871E+001
Paving Equipment	3.71000E-003	1.61000E-002	2.29050E-001	3.00000E-004	5.00000E-004	5.00000E-004	0.00000E+000	2.64365E+001	2.64365E+001	8.55000E-003	0.00000E+000	2.66161E+001
Rollers	2.41000E-003	1.04600E-002	1.48790E-001	2.00000E-004	3.20000E-004	3.20000E-004	0.00000E+000	1.72864E+001	1.72864E+001	5.59000E-003	0.00000E+000	1.74038E+001
Rubber Tired Dozers	1.99700E-002	8.65300E-002	7.32180E-001	1.64000E-003	2.66000E-003	2.66000E-003	0.00000E+000	1.56741E+002	1.56741E+002	4.67900E-002	0.00000E+000	1.57723E+002
Scrapers	2.01700E-002	8.74100E-002	7.39580E-001	1.64000E-003	2.69000E-003	2.69000E-003	0.00000E+000	1.56130E+002	1.56130E+002	4.66100E-002	0.00000E+000	1.57109E+002
Tractors/Loaders/Backhoes	6.25500E-002	2.71040E-001	3.85709E+000	5.12000E-003	8.34000E-003	8.34000E-003	0.00000E+000	4.73636E+002	4.73636E+002	1.45660E-001	0.00000E+000	4.76695E+002
Welders	2.43100E-002	5.57210E-001	8.30750E-001	1.42000E-003	1.62000E-003	1.62000E-003	0.00000E+000	1.04462E+002	1.04462E+002	2.14800E-002	0.00000E+000	1.04914E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	8.77753E-001	9.23503E-001	-5.82411E-004	0.00000E+000	9.63942E-001	9.63942E-001	0.00000E+000	1.04442E-006	1.04442E-006	0.00000E+000	0.00000E+000	1.04272E-006
Concrete/Industrial Saws	9.12154E-001	9.45709E-001	-1.44982E-002	0.00000E+000	9.78645E-001	9.78645E-001	0.00000E+000	1.06281E-006	1.06281E-006	0.00000E+000	0.00000E+000	1.06042E-006
Cranes	8.85582E-001	9.58304E-001	2.82180E-002	0.00000E+000	9.70906E-001	9.68378E-001	0.00000E+000	1.18903E-006	1.18903E-006	0.00000E+000	0.00000E+000	1.22075E-006
Excavators	8.43569E-001	9.41976E-001	-1.68078E-001	0.00000E+000	9.63781E-001	9.60632E-001	0.00000E+000	1.19973E-006	1.19973E-006	0.00000E+000	0.00000E+000	1.19225E-006
Forklifts	9.03189E-001	9.51990E-001	5.55808E-002	0.00000E+000	9.81802E-001	9.80220E-001	0.00000E+000	1.19554E-006	1.19554E-006	0.00000E+000	0.00000E+000	1.18784E-006
Generator Sets	8.78801E-001	9.33904E-001	-7.79153E-002	0.00000E+000	9.69034E-001	9.69034E-001	0.00000E+000	1.21139E-006	1.21139E-006	0.00000E+000	0.00000E+000	1.20942E-006
Graders	9.28938E-001	9.69903E-001	6.53063E-002	0.00000E+000	9.83636E-001	9.82212E-001	0.00000E+000	1.22009E-006	1.22009E-006	0.00000E+000	0.00000E+000	1.21249E-006
Pavers	7.79831E-001	9.10890E-001	-2.29367E-001	0.00000E+000	9.43147E-001	9.38190E-001	0.00000E+000	1.34297E-006	1.34297E-006	0.00000E+000	0.00000E+000	1.00043E-006
Paving Equipment	7.57833E-001	8.98211E-001	-2.23558E-001	0.00000E+000	9.36789E-001	9.31319E-001	0.00000E+000	1.13479E-006	1.13479E-006	0.00000E+000	0.00000E+000	1.12714E-006
Rollers	8.45612E-001	9.32987E-001	-4.78169E-002	0.00000E+000	9.67839E-001	9.65027E-001	0.00000E+000	1.15698E-006	1.15698E-006	0.00000E+000	0.00000E+000	1.72376E-006
Rubber Tired Dozers	9.15212E-001	9.67489E-001	6.39434E-001	0.00000E+000	9.78579E-001	9.76718E-001	0.00000E+000	1.14839E-006	1.14839E-006	0.00000E+000	0.00000E+000	1.20464E-006
Scrapers	8.72937E-001	9.57275E-001	4.19222E-001	0.00000E+000	9.67445E-001	9.64615E-001	0.00000E+000	1.21693E-006	1.21693E-006	0.00000E+000	0.00000E+000	1.14570E-006
Tractors/Loaders/Backhoes	8.72526E-001	9.43106E-001	1.14715E-002	0.00000E+000	9.76258E-001	9.74194E-001	0.00000E+000	1.18234E-006	1.18234E-006	0.00000E+000	0.00000E+000	1.19573E-006
Welders	9.07805E-001	4.14462E-001	2.07844E-001	0.00000E+000	9.75936E-001	9.75936E-001	0.00000E+000	1.24447E-006	1.24447E-006	0.00000E+000	0.00000E+000	1.23911E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00

No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.09	0.02	0.09	0.02	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	8.02	2.16	8.02	2.16	0.00	0.00
Demolition	Fugitive Dust	0.36	0.05	0.14	0.02	0.61	0.61
Demolition	Roads	0.03	0.01	0.03	0.01	0.00	0.00
Grading	Fugitive Dust	0.37	0.19	0.14	0.07	0.61	0.61
Grading	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.36	0.20	0.14	0.08	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.17	6.17	6.17	6.16	6.17
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	12.53	12.52	12.52	12.36	12.52	12.52	0.00	12.52	12.52	12.55	12.51	12.52
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	22.55	22.44	20.01	20.12	22.17
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.13	0.36		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	15.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher	General Office Building	30.00

DishWasher		15.00
Fan		50.00
Refrigerator	Health Club	15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	20.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Coatings Mitigation

250	g/L VOC, unmit scenario in Caleemod
10	g/L VOC, mit scenario to apply to scale Caleemod emissions
0.04	scaling

Consumer Products

Caleemod calculates consumers product ROG for parking lots. This step adjusts the ROG emission factor in caleemod to remove this.

	1.98E-05	lbs/sf/day - caleemod default
	56.5942	ROG/day from consumer products
	2,858,293	sf assumed in caleemod
0.548262	1,567,093	sf in reality - minus out parking structure
	1.09E-05	lbs/sf/day - revised

Carbon Monoxide Hot-Spot Modeling

TABLE 7
EXISTING YEAR (2014) PLUS PROJECT
INTERSECTION LEVEL OF SERVICE ANALYSIS

ID	N/S Street Name	E/W Street Name	Peak Hour	Existing (2014)[1] V/C[2]	Existing (2014)[1] LOS	E+P (2014) V/C[2]	E+P (2014) LOS	PH Vol	chng in VC	LOS C or worse for EPP?
1	Daly Street	Main Street	AM	0.755	C	0.769	C	3440	1.9%	Y
			PM	0.655	B	0.714	C	3120	9.0%	Y
2	I-5 SB Ramps/1-10 On-Ramp	Mission Road	AM	0.750	C	0.759	C	3567	1.2%	Y
			PM	0.537	A	0.546	A	2931	1.7%	N
3	Daly Street/Marengo Street	Mission Road	AM	0.801	D	0.820	D	4467	2.4%	Y
			PM	0.820	D	0.769	C	4256	-6.2%	Y
4	Workman Street	Mission Road	AM	0.555	A	0.555	A	2769	0.0%	N
			PM	0.467	A	0.431	A	2488	-7.7%	N
5	Sichel Street	Mission Road	AM	0.535	A	0.571	A	2732	6.7%	N
			PM	0.402	A	0.396	A	2412	-1.5%	N
6	Griffin Avenue/Zonal Avenue	Mission Road	AM	0.629	B	0.651	B	3499	3.5%	N
			PM	0.515	A	0.581	A	3179	12.8%	N
7	Mission Road	Valley Boulevard	AM	0.734	C	0.738	C	2664	0.5%	Y
			PM	0.779	C	0.795	C	2623	2.1%	Y
8	Mission Road	Main Street	AM	0.605	B	0.616	B	3546	1.8%	N
			PM	0.473	A	0.493	A	2821	4.2%	N
9	State Street	Cesar E. Chavez Avenue	AM	0.691	B	0.726	C	3377	5.1%	Y
			PM	0.769	C	0.804	D	2878	4.6%	Y
10	State Street	I-10 EB Ramps	AM	0.593	A	0.641	B	2415	8.1%	N
			PM	0.643	B	0.673	B	2544	4.7%	N
11	State Street	I-10 WB Off-Ramp	AM	0.507	A	0.551	A	2363	8.7%	N
			PM	0.239	A	0.277	A	1507	15.9%	N
12	State Street	Pomeroy Avenue	AM	0.506	A	0.571	A	2053	12.8%	N
			PM	0.378	A	0.409	A	1686	8.2%	N
13	State Street	Marengo Street	AM	0.712	C	0.803	D	3243	12.8%	Y
			PM	0.626	B	0.814	D	2890	30.0%	Y
14	I-5 NB Off-Ramp	Cesar E. Chavez Avenue	AM	0.684	B	0.715	C	2368	4.5%	Y
			PM	0.319	A	0.329	A	1732	3.1%	N
15	Brittania Street	Marengo Street	AM	0.407	A	0.460	A	2000	13.0%	N
			PM	0.383	A	0.364	A	1812	-5.0%	N
16	Chicago Street	Marengo Street	AM	0.487	A	0.511	A	2367	4.9%	N
			PM	0.335	A	0.341	A	1898	1.8%	N
17	San Pablo Street	Valley Boulevard	AM	0.494	A	0.485	A	2729	-1.8%	N
			PM	0.473	A	0.453	A	2495	-4.2%	N
18	Soto Street	I-10 EB Off-Ramp/Wabash Avenue	AM	0.642	B	0.666	B	2959	3.7%	N
			PM	0.637	B	0.648	B	3078	1.7%	N
19	Soto Street	Marengo Street	AM	0.817	D	0.877	D	4568	7.3%	Y
			PM	0.710	C	0.738	C	4321	3.9%	Y
20	Soto Street	Charlotte Street/I-10 WB Ramps	AM	0.873	D	0.889	D	3968	1.8%	Y
			PM	0.882	D	0.866	D	3636	-1.8%	Y
21	Soto Street	Alcazar Street	AM	0.689	B	0.700	B	3110	1.6%	N
			PM	0.683	B	0.692	B	2991	1.3%	N

Notes:

** Indicated oversaturated conditions. Delay cannot be calculated.

[1]Existing traffic counts were collected in mid-May 2014 when school was no longer in session at the USC Health Science Campus. In order to reflect school year conditions, student-related trip estimates were assigned to the existing roadway network.

[2]The signalized intersections listed above are currently operating under the ATSAC system. A total credit of 0.07 V/C ratio was included in this analysis for all signalized intersections.

TABLE 8
CUMULATIVE YEAR (2040) PLUS PROJECT
INTERSECTION LEVEL OF SERVICE ANALYSIS

ID	N/S Street Name	E/W Street Name	Peak Hour	Cumulative Base (2040) V/C[1]	Cumulative Base (2040) LOS	C+P (2040) V/C[1]	C+P (2040) LOS	PH Vol	chng in VC	LOS C or worse for EPP?
1	Daly Street	Main Street	AM	0.786	C	0.801	D	3756	1.9%	Y
			PM	0.739	C	0.747	C	3376	1.1%	Y
2	I-5 SB Ramps/1-10 On-Ramp	Mission Road	AM	0.809	D	0.820	D	3938	1.4%	Y
			PM	0.574	A	0.584	A	3230	1.7%	N
3	Daly Street/Marengo Street	Mission Road	AM	0.842	D	0.861	D	4899	2.3%	Y
			PM	0.901	E	0.850	D	4705	-5.7%	Y
4	Workman Street	Mission Road	AM	0.581	A	0.581	A	3072	0.0%	N
			PM	0.512	A	0.476	A	2802	-7.0%	N
5	Sichel Street	Mission Road	AM	0.558	A	0.595	A	3030	6.6%	N
			PM	0.442	A	0.436	A	2715	-1.4%	N
6	Griffin Avenue/Zonal Avenue	Mission Road	AM	0.659	B	0.679	B	3836	3.0%	N
			PM	0.563	A	0.599	A	3524	6.4%	N
7	Mission Road	Valley Boulevard	AM	0.817	D	0.820	D	2969	0.4%	Y
			PM	0.826	D	0.842	D	2914	1.9%	Y
8	Mission Road	Main Street	AM	0.630	B	0.641	B	3852	1.7%	N
			PM	0.492	A	0.511	A	3147	3.9%	N
9	State Street	Cesar E. Chavez Avenue	AM	0.731	C	0.765	C	3724	4.7%	Y
			PM	0.839	D	0.875	D	3227	4.3%	Y
10	State Street	I-10 EB Ramps	AM	0.635	B	0.679	B	2686	6.9%	N
			PM	0.691	B	0.720	C	2822	4.2%	Y
11	State Street	I-10 WB Off-Ramp	AM	0.543	A	0.587	A	2594	8.1%	N
			PM	0.256	A	0.293	A	1690	14.5%	N
12	State Street	Pomeroy Avenue	AM	0.531	A	0.595	A	2252	12.1%	N
			PM	0.391	A	0.436	A	1903	11.5%	N
13	State Street	Marengo Street	AM	0.751	C	0.843	D	3538	12.3%	Y
			PM	0.686	B	0.859	D	3221	25.2%	Y
14	I-5 NB Off-Ramp	Cesar E. Chavez Avenue	AM	0.727	C	0.758	C	2596	4.3%	Y
			PM	0.331	A	0.341	A	1921	3.0%	N
15	Brittania Street	Marengo Street	AM	0.425	A	0.478	A	2188	12.5%	N
			PM	0.415	A	0.369	A	2059	-11.1%	N
16	Chicago Street	Marengo Street	AM	0.510	A	0.535	A	2583	4.9%	N
			PM	0.343	A	0.345	A	2155	0.6%	N
17	San Pablo Street	Valley Boulevard	AM	0.518	A	0.509	A	3067	-1.7%	N
			PM	0.547	A	0.525	A	2828	-4.0%	N
18	Soto Street	I-10 EB Off-Ramp/Wabash Avenue	AM	0.705	C	0.729	C	3342	3.4%	Y
			PM	0.685	B	0.696	B	3471	1.6%	N
19	Soto Street	Marengo Street	AM	0.897	D	0.955	E	5099	6.5%	Y
			PM	0.788	C	0.814	D	4916	3.3%	Y
20	Soto Street	Charlotte Street/I-10 WB Ramps	AM	0.966	E	0.976	E	4498	1.0%	Y
			PM	0.967	E	0.952	E	4151	-1.6%	Y
21	Soto Street	Alcazar Street	AM	0.800	C	0.812	D	3570	1.5%	Y
			PM	0.752	C	0.759	C	3430	0.9%	Y

Notes:

** Indicated oversaturated conditions. Delay cannot be calculated.

[1] The signalized intersections listed above are assumed to operate under both the ATSAC and ATCS system by 2040. A total credit of 0.10 V/C ratio was included in this analysis for all

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 3 DALY AND MISSION EPP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	EF VPH	H (G/MI)	W (FT)	(FT)
A. NF	*	8	-1500	8	-500	* AG	795	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	601	4.6	.0	33.0
C. ND	*	8	0	8	500	* AG	552	3.8	.0	33.0
D. NE	*	8	500	8	1500	* AG	552	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	772	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	748	4.6	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	925	4.6	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	925	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	1623	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	1426	4.6	.0	33.0
K. WD	*	0	8	-500	8	* AG	1975	3.1	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	1975	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	1277	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	1200	4.6	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1015	3.1	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1015	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	194	3.8	.0	33.0
R. SL	*	0	0	-8	500	* AG	24	3.8	.0	33.0
S. WL	*	0	0	500	8	* AG	197	3.1	.0	33.0
T. EL	*	0	0	-500	-8	* AG	77	3.1	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	* 265.	* 2.2	*	.0	.0	.1	.0	.0	.2	.0	.0
2. SE3	* 275.	* 2.2	*	.0	.2	.0	.0	.0	.0	.2	.0
3. SW3	* 84.	* 2.0	*	.0	.1	.0	.0	.0	.0	.3	.0
4. NW3	* 95.	* 2.2	*	.0	.0	.1	.0	.0	.2	.0	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.2	1.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.5	.1	.0	1.0	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.6	.0	.0	.0	.2	.6	.0	.0	.0	.1	.0
4. NW3	*	.0	1.2	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: 3 DALY AND MISSION EPP
RUN: .000000E+00
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= .0 DEGREES VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	795	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	601	4.6	.0	33.0
C. ND	*	8	0	8	500	* AG	552	3.8	.0	33.0
D. NE	*	8	500	8	1500	* AG	552	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	772	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	748	4.6	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	925	4.6	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	925	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	1623	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	1426	4.6	.0	33.0
K. WD	*	0	8	-500	8	* AG	1975	3.1	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	1975	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	1277	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	1200	4.6	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1015	3.1	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1015	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	194	3.8	.0	33.0
R. SL	*	0	0	-8	500	* AG	24	3.8	.0	33.0
S. WL	*	0	0	500	8	* AG	197	3.1	.0	33.0
T. EL	*	0	0	-500	-8	* AG	77	3.1	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (PRED. CONC. INCLUDES AMB.)

RECEPTOR	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H	I	J
1. NE3	.5	*	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
2. SE3	1.1	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3
3. SW3	1.3	*	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
4. NW3	.6	*	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
3. SW3	*	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 3 DALY AND MISSION EPP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	EF VPH	H (G/MI)	W (FT)	(FT)
A. NF	*	8	-1500	8	-500	* AG	882	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	796	4.6	.0	33.0
C. ND	*	8	0	8	500	* AG	924	4.6	.0	33.0
D. NE	*	8	500	8	1500	* AG	924	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	539	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	525	4.6	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1040	4.6	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1040	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	1280	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	949	3.8	.0	33.0
K. WD	*	0	8	-500	8	* AG	1166	2.6	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	1166	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	1555	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	1336	4.6	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1126	2.6	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1126	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	86	3.8	.0	33.0
R. SL	*	0	0	-8	500	* AG	14	3.8	.0	33.0
S. WL	*	0	0	500	8	* AG	331	3.1	.0	33.0
T. EL	*	0	0	-500	-8	* AG	219	3.1	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	* 264.	* 1.9	*	.0	.0	.3	.0	.0	.1	.0	.0
2. SE3	* 275.	* 2.2	*	.0	.3	.0	.0	.0	.0	.3	.0
3. SW3	* 85.	* 1.9	*	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	* 175.	* 2.0	*	.0	.3	.0	.0	.0	.0	.9	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.1	.6	.0	.0	.6	.0	.0	.0	.0	.0	.1
2. SE3	*	.0	.0	.3	.0	.0	1.1	.0	.0	.0	.0	.0	.1
3. SW3	*	.0	.3	.0	.0	.0	.2	.5	.0	.0	.0	.1	.0
4. NW3	*	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: 3 DALY AND MISSION EPP
RUN: .000000E+00
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= .0 DEGREES VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	882	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	796	4.6	.0	33.0
C. ND	*	8	0	8	500	* AG	924	4.6	.0	33.0
D. NE	*	8	500	8	1500	* AG	924	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	539	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	525	4.6	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1040	4.6	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1040	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	1280	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	949	3.8	.0	33.0
K. WD	*	0	8	-500	8	* AG	1166	2.6	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	1166	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	1555	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	1336	4.6	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1126	2.6	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1126	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	86	3.8	.0	33.0
R. SL	*	0	0	-8	500	* AG	14	3.8	.0	33.0
S. WL	*	0	0	500	8	* AG	331	3.1	.0	33.0
T. EL	*	0	0	-500	-8	* AG	219	3.1	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (PRED. CONC. INCLUDES AMB.)

RECEPTOR	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H	I	J
1. NE3	*	.7	*	.0	.0	.5	.1	.0	.0	.0	.0	.0	.0
2. SE3	*	1.2	*	.0	.0	.5	.0	.0	.0	.0	.0	.0	.2
3. SW3	*	1.2	*	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
4. NW3	*	.5	*	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
3. SW3	*	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 19 SOTO AND MARENGO EPP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1550	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	925	3.8	.0	33.0
C. ND	*	8	0	8	500	* AG	1053	2.6	.0	33.0
D. NE	*	8	500	8	1500	* AG	1053	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1718	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	1262	4.6	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1097	2.6	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1097	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	717	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	672	4.6	.0	33.0
K. WD	*	0	8	-500	8	* AG	1650	4.6	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	1650	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	583	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	507	4.6	.0	33.0
O. ED	*	0	-8	500	-8	* AG	768	4.6	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	768	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	625	3.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	456	3.1	.0	33.0
S. WL	*	0	0	500	8	* AG	45	4.6	.0	33.0
T. EL	*	0	0	-500	-8	* AG	76	4.6	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	* 265.	* 2.4	*	.0	.0	.2	.0	.0	.3	.0	.0
2. SE3	* 276.	* 1.9	*	.0	.2	.0	.0	.0	.0	.2	.0
3. SW3	* 5.	* 2.3	*	.0	.0	.2	.0	.0	1.1	.0	.0
4. NW3	* 174.	* 2.1	*	.0	.3	.0	.0	.0	.2	.5	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	1.3	.0	.0	.2	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.7	.0	.0	.5	.1	.0	.1	.0	.0	.0
3. SW3	*	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2	.0	.0
4. NW3	*	.0	.0	.5	.0	.0	.1	.0	.0	.3	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: 19 SOTO AND MARENGO EPP
RUN: .000000E+00
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= .0 DEGREES VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1550	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	925	3.8	.0	33.0
C. ND	*	8	0	8	500	* AG	1053	2.6	.0	33.0
D. NE	*	8	500	8	1500	* AG	1053	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1718	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	1262	4.6	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1097	2.6	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1097	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	717	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	672	4.6	.0	33.0
K. WD	*	0	8	-500	8	* AG	1650	4.6	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	1650	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	583	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	507	4.6	.0	33.0
O. ED	*	0	-8	500	-8	* AG	768	4.6	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	768	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	625	3.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	456	3.1	.0	33.0
S. WL	*	0	0	500	8	* AG	45	4.6	.0	33.0
T. EL	*	0	0	-500	-8	* AG	76	4.6	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (PRED. CONC. INCLUDES AMB.)

RECEPTOR	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H	I	J
1. NE3	.7	*	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0
2. SE3	1.1	*	.0	.0	.3	.1	.1	.1	.0	.0	.0	.2
3. SW3	1.6	*	.0	.0	.0	.0	.1	.6	.0	.0	.0	.0
4. NW3	1.0	*	.0	.0	.0	.0	.2	.6	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
3. SW3	*	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 19 SOTO AND MARENGO EPP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1682	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	1326	4.6	.0	33.0
C. ND	*	8	0	8	500	* AG	1380	2.6	.0	33.0
D. NE	*	8	500	8	1500	* AG	1380	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1288	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	798	3.8	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	938	2.6	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	938	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	338	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	309	4.6	.0	33.0
K. WD	*	0	8	-500	8	* AG	860	4.6	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	860	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	1013	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	813	4.6	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1143	4.6	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1143	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	356	3.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	490	3.1	.0	33.0
S. WL	*	0	0	500	8	* AG	29	3.8	.0	33.0
T. EL	*	0	0	-500	-8	* AG	200	3.8	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	* 185.	* 2.1	*	.0	1.1	.0	.0	.0	.0	.2	.0
2. SE3	* 275.	* 2.1	*	.0	.4	.0	.0	.0	.0	.1	.0
3. SW3	* 85.	* 1.9	*	.0	.3	.0	.0	.0	.0	.2	.0
4. NW3	* 174.	* 1.9	*	.0	.6	.0	.0	.0	.0	.5	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0
2. SE3	*	.0	.0	.4	.0	.0	.7	.1	.0	.0	.0	.0	.1
3. SW3	*	.0	.2	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.3	.0	.0	.2	.0	.0	.2	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: 19 SOTO AND MARENGO EPP
RUN: .000000E+00
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= .0 DEGREES VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1682	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	1326	4.6	.0	33.0
C. ND	*	8	0	8	500	* AG	1380	2.6	.0	33.0
D. NE	*	8	500	8	1500	* AG	1380	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1288	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	798	3.8	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	938	2.6	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	938	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	338	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	309	4.6	.0	33.0
K. WD	*	0	8	-500	8	* AG	860	4.6	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	860	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	1013	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	813	4.6	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1143	4.6	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1143	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	356	3.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	490	3.1	.0	33.0
S. WL	*	0	0	500	8	* AG	29	3.8	.0	33.0
T. EL	*	0	0	-500	-8	* AG	200	3.8	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (PRED. CONC. INCLUDES AMB.)

RECEPTOR	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H	I	J
1. NE3	.7	*	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0
2. SE3	1.2	*	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0
3. SW3	1.3	*	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0
4. NW3	.7	*	.0	.0	.0	.1	.1	.4	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
3. SW3	*	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 20 SOTO AND CHARLOTTE EPP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1053	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	916	4.6	.0	33.0
C. ND	*	8	0	8	500	* AG	1242	3.1	.0	33.0
D. NE	*	8	500	8	1500	* AG	1242	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1384	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	1115	4.6	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1724	3.1	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1724	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	1248	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	773	4.6	.0	33.0
K. WD	*	0	8	-500	8	* AG	580	3.1	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	580	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	283	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	239	3.8	.0	33.0
O. ED	*	0	-8	500	-8	* AG	422	2.6	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	422	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	137	3.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	269	3.1	.0	33.0
S. WL	*	0	0	500	8	* AG	475	4.6	.0	33.0
T. EL	*	0	0	-500	-8	* AG	44	3.8	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	* 185.	* 2.0	*	.0	.8	.0	.0	.0	.0	.4	.1
2. SE3	* 355.	* 1.9	*	.0	.1	.7	.0	.0	.5	.0	.0
3. SW3	* 5.	* 1.9	*	.0	.0	.3	.0	.0	1.0	.1	.0
4. NW3	* 175.	* 1.8	*	.0	.4	.0	.0	.0	.1	.9	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
2. SE3	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0
3. SW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
4. NW3	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: 20 SOTO AND CHARLOTTE EPP
RUN: .000000E+00
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= .0 DEGREES VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	EF VPH	H (G/MI)	W (FT)	(FT)
A. NF	*	8	-1500	8	-500	* AG	1053	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	916	4.6	.0	33.0
C. ND	*	8	0	8	500	* AG	1242	3.1	.0	33.0
D. NE	*	8	500	8	1500	* AG	1242	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1384	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	1115	4.6	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1724	3.1	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1724	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	1248	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	773	4.6	.0	33.0
K. WD	*	0	8	-500	8	* AG	580	3.1	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	580	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	283	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	239	3.8	.0	33.0
O. ED	*	0	-8	500	-8	* AG	422	2.6	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	422	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	137	3.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	269	3.1	.0	33.0
S. WL	*	0	0	500	8	* AG	475	4.6	.0	33.0
T. EL	*	0	0	-500	-8	* AG	44	3.8	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (PRED. CONC. INCLUDES AMB.)

RECEPTOR	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H	I	J
1. NE3	.8	*	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0
2. SE3	1.2	*	.0	.0	.4	.1	.0	.0	.0	.0	.0	.2
3. SW3	1.1	*	.0	.0	.0	.0	.1	.6	.0	.0	.0	.0
4. NW3	.9	*	.0	.0	.0	.0	.1	.6	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
3. SW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 20 SOTO AND CHARLOTTE EPP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1380	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	1327	4.6	.0	33.0
C. ND	*	8	0	8	500	* AG	1593	2.6	.0	33.0
D. NE	*	8	500	8	1500	* AG	1593	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1023	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	776	3.8	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1269	2.6	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1269	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	954	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	596	4.6	.0	33.0
K. WD	*	0	8	-500	8	* AG	318	2.6	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	318	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	279	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	255	4.6	.0	33.0
O. ED	*	0	-8	500	-8	* AG	456	3.1	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	456	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	53	3.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	247	3.1	.0	33.0
S. WL	*	0	0	500	8	* AG	358	4.6	.0	33.0
T. EL	*	0	0	-500	-8	* AG	24	3.8	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* PRED * BRG (DEG)	* CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	*	185.	*	2.1	*	.0	1.1	.1	.0	.0	.0	.3	.0
2. SE3	*	355.	*	1.8	*	.0	.2	.7	.0	.0	.3	.0	.0
3. SW3	*	84.	*	1.5	*	.0	.3	.0	.0	.0	.0	.2	.0
4. NW3	*	175.	*	1.5	*	.0	.5	.0	.0	.0	.0	.6	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
2. SE3	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
3. SW3	*	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.3	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: 20 SOTO AND CHARLOTTE EPP
RUN: .000000E+00
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= .0 DEGREES VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1380	2.1	.0	35.0
B. NA	*	8	-500	8	0	* AG	1327	4.6	.0	33.0
C. ND	*	8	0	8	500	* AG	1593	2.6	.0	33.0
D. NE	*	8	500	8	1500	* AG	1593	2.1	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1023	2.1	.0	35.0
F. SA	*	-8	500	-8	0	* AG	776	3.8	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1269	2.6	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1269	2.1	.0	35.0
I. WF	*	1500	8	500	8	* AG	954	2.1	.0	35.0
J. WA	*	500	8	0	8	* AG	596	4.6	.0	33.0
K. WD	*	0	8	-500	8	* AG	318	2.6	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	318	2.1	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	279	2.1	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	255	4.6	.0	33.0
O. ED	*	0	-8	500	-8	* AG	456	3.1	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	456	2.1	.0	35.0
Q. NL	*	0	0	8	-500	* AG	53	3.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	247	3.1	.0	33.0
S. WL	*	0	0	500	8	* AG	358	4.6	.0	33.0
T. EL	*	0	0	-500	-8	* AG	24	3.8	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (PRED. CONC. INCLUDES AMB.)

RECEPTOR	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H	I	J
1. NE3	.8	*	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0
2. SE3	1.1	*	.0	.0	.4	.1	.0	.0	.0	.0	.0	.1
3. SW3	.8	*	.0	.0	.0	.1	.1	.3	.0	.0	.0	.0
4. NW3	.7	*	.0	.0	.0	.1	.1	.3	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 3 DALY AND MISSION FUTWP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LIK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	EF VPH	H (G/MI)	W (FT)	(FT)
A. NF	*	8	-1500	8	-500	* AG	864	.8	.0	35.0
B. NA	*	8	-500	8	0	* AG	654	1.5	.0	33.0
C. ND	*	8	0	8	500	* AG	594	1.3	.0	33.0
D. NE	*	8	500	8	1500	* AG	594	.8	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	831	.8	.0	35.0
F. SA	*	-8	500	-8	0	* AG	803	1.5	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1009	1.5	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1009	.8	.0	35.0
I. WF	*	1500	8	500	8	* AG	1770	.8	.0	35.0
J. WA	*	500	8	0	8	* AG	1543	1.5	.0	33.0
K. WD	*	0	8	-500	8	* AG	2133	1.1	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	2133	.8	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	1434	.8	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	1352	1.5	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1163	1.1	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1163	.8	.0	35.0
Q. NL	*	0	0	8	-500	* AG	210	1.3	.0	33.0
R. SL	*	0	0	-8	500	* AG	28	1.3	.0	33.0
S. WL	*	0	0	500	8	* AG	227	1.1	.0	33.0
T. EL	*	0	0	-500	-8	* AG	82	1.1	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	* 265.	* .8	*	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* 275.	* .8	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* 84.	* .8	*	.0	.0	.0	.0	.0	.0	.1	.0
4. NW3	* 95.	* .8	*	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
4. NW3	*	.0	.4	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 3 DALY AND MISSION FUTWP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	974	.8	.0	35.0
B. NA	*	8	-500	8	0	* AG	862	1.5	.0	33.0
C. ND	*	8	0	8	500	* AG	977	1.5	.0	33.0
D. NE	*	8	500	8	1500	* AG	977	.8	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	573	.8	.0	35.0
F. SA	*	-8	500	-8	0	* AG	551	1.5	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1212	1.5	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1212	.8	.0	35.0
I. WF	*	1500	8	500	8	* AG	1522	.8	.0	35.0
J. WA	*	500	8	0	8	* AG	1040	1.5	.0	33.0
K. WD	*	0	8	-500	8	* AG	1287	1.0	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	1287	.8	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	1678	.8	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	1444	1.5	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1271	1.0	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1271	.8	.0	35.0
Q. NL	*	0	0	8	-500	* AG	112	1.3	.0	33.0
R. SL	*	0	0	-8	500	* AG	22	1.3	.0	33.0
S. WL	*	0	0	500	8	* AG	482	1.1	.0	33.0
T. EL	*	0	0	-500	-8	* AG	234	1.1	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	* 185.	* .7	*	.0	.3	.0	.0	.0	.0	.2	.0
2. SE3	* 274.	* .8	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* 84.	* .8	*	.0	.0	.0	.0	.0	.0	.1	.0
4. NW3	* 175.	* .8	*	.0	.1	.0	.0	.0	.0	.3	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: 3 DALY AND MISSION FUTWP
RUN: .000000E+00
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= .0 DEGREES VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	974	.8	.0	35.0
B. NA	*	8	-500	8	0	* AG	862	1.5	.0	33.0
C. ND	*	8	0	8	500	* AG	977	1.5	.0	33.0
D. NE	*	8	500	8	1500	* AG	977	.8	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	573	.8	.0	35.0
F. SA	*	-8	500	-8	0	* AG	551	1.5	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1212	1.5	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1212	.8	.0	35.0
I. WF	*	1500	8	500	8	* AG	1522	.8	.0	35.0
J. WA	*	500	8	0	8	* AG	1040	1.5	.0	33.0
K. WD	*	0	8	-500	8	* AG	1287	1.0	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	1287	.8	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	1678	.8	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	1444	1.5	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1271	1.0	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1271	.8	.0	35.0
Q. NL	*	0	0	8	-500	* AG	112	1.3	.0	33.0
R. SL	*	0	0	-8	500	* AG	22	1.3	.0	33.0
S. WL	*	0	0	500	8	* AG	482	1.1	.0	33.0
T. EL	*	0	0	-500	-8	* AG	234	1.1	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (PRED. CONC. INCLUDES AMB.)

RECEPTOR	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H	I	J
1. NE3	.3	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
2. SE3	.5	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
3. SW3	.4	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
4. NW3	.2	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 19 SOTO AND MARENGO FUTWP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1787	.8	.0	35.0
B. NA	*	8	-500	8	0	* AG	1109	1.5	.0	33.0
C. ND	*	8	0	8	500	* AG	1247	1.0	.0	33.0
D. NE	*	8	500	8	1500	* AG	1247	.8	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1906	.8	.0	35.0
F. SA	*	-8	500	-8	0	* AG	1406	1.5	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1221	1.0	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1221	.8	.0	35.0
I. WF	*	1500	8	500	8	* AG	773	.8	.0	35.0
J. WA	*	500	8	0	8	* AG	725	1.5	.0	33.0
K. WD	*	0	8	-500	8	* AG	1794	1.5	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	1794	.8	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	633	.8	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	550	1.5	.0	33.0
O. ED	*	0	-8	500	-8	* AG	837	1.5	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	837	.8	.0	35.0
Q. NL	*	0	0	8	-500	* AG	678	1.3	.0	33.0
R. SL	*	0	0	-8	500	* AG	500	1.1	.0	33.0
S. WL	*	0	0	500	8	* AG	48	1.5	.0	33.0
T. EL	*	0	0	-500	-8	* AG	83	1.5	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	* 265.	* .9	*	.0	.0	.0	.0	.0	.1	.0	.0
2. SE3	* 276.	* .7	*	.0	.1	.0	.0	.0	.0	.0	.0
3. SW3	* 5.	* .9	*	.0	.0	.1	.0	.0	.4	.0	.0
4. NW3	* 174.	* .8	*	.0	.2	.0	.0	.0	.0	.2	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: 19 SOTO AND MARENGO FUTWP
RUN: .000000E+00
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= .0 DEGREES VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1787	.8	.0	35.0
B. NA	*	8	-500	8	0	* AG	1109	1.5	.0	33.0
C. ND	*	8	0	8	500	* AG	1247	1.0	.0	33.0
D. NE	*	8	500	8	1500	* AG	1247	.8	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1906	.8	.0	35.0
F. SA	*	-8	500	-8	0	* AG	1406	1.5	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1221	1.0	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1221	.8	.0	35.0
I. WF	*	1500	8	500	8	* AG	773	.8	.0	35.0
J. WA	*	500	8	0	8	* AG	725	1.5	.0	33.0
K. WD	*	0	8	-500	8	* AG	1794	1.5	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	1794	.8	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	633	.8	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	550	1.5	.0	33.0
O. ED	*	0	-8	500	-8	* AG	837	1.5	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	837	.8	.0	35.0
Q. NL	*	0	0	8	-500	* AG	678	1.3	.0	33.0
R. SL	*	0	0	-8	500	* AG	500	1.1	.0	33.0
S. WL	*	0	0	500	8	* AG	48	1.5	.0	33.0
T. EL	*	0	0	-500	-8	* AG	83	1.5	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (PRED. CONC. INCLUDES AMB.)

RECEPTOR	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H	I	J
1. NE3	*	.3	*	.0	.0	.1	.0	.0	.0	.0	.0	.0
2. SE3	*	.4	*	.0	.0	.1	.0	.0	.0	.0	.0	.0
3. SW3	*	.6	*	.0	.0	.0	.0	.0	.2	.0	.0	.0
4. NW3	*	.4	*	.0	.0	.0	.0	.0	.2	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 19 SOTO AND MARENGO FUTWP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1845	.8	.0	35.0
B. NA	*	8	-500	8	0	* AG	1483	1.5	.0	33.0
C. ND	*	8	0	8	500	* AG	1489	1.0	.0	33.0
D. NE	*	8	500	8	1500	* AG	1489	.8	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1611	.8	.0	35.0
F. SA	*	-8	500	-8	0	* AG	1027	1.5	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1072	1.0	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1072	.8	.0	35.0
I. WF	*	1500	8	500	8	* AG	362	.8	.0	35.0
J. WA	*	500	8	0	8	* AG	331	1.5	.0	33.0
K. WD	*	0	8	-500	8	* AG	941	1.5	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	941	.8	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	941	.8	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	779	1.5	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1257	1.5	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1257	.8	.0	35.0
Q. NL	*	0	0	8	-500	* AG	362	1.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	584	1.1	.0	33.0
S. WL	*	0	0	500	8	* AG	31	1.5	.0	33.0
T. EL	*	0	0	-500	-8	* AG	162	1.5	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	185.	.8	*	.0	.4	.0	.0	.0	.0	.0	.0
2. SE3	355.	.8	*	.0	.0	.3	.0	.0	.1	.0	.0
3. SW3	5.	.8	*	.0	.0	.1	.0	.0	.3	.0	.0
4. NW3	174.	.7	*	.0	.2	.0	.0	.0	.0	.2	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: 19 SOTO AND MARENGO FUTWP
RUN: .000000E+00
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= .0 DEGREES VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1845	.8	.0	35.0
B. NA	*	8	-500	8	0	* AG	1483	1.5	.0	33.0
C. ND	*	8	0	8	500	* AG	1489	1.0	.0	33.0
D. NE	*	8	500	8	1500	* AG	1489	.8	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1611	.8	.0	35.0
F. SA	*	-8	500	-8	0	* AG	1027	1.5	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1072	1.0	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1072	.8	.0	35.0
I. WF	*	1500	8	500	8	* AG	362	.8	.0	35.0
J. WA	*	500	8	0	8	* AG	331	1.5	.0	33.0
K. WD	*	0	8	-500	8	* AG	941	1.5	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	941	.8	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	941	.8	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	779	1.5	.0	33.0
O. ED	*	0	-8	500	-8	* AG	1257	1.5	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	1257	.8	.0	35.0
Q. NL	*	0	0	8	-500	* AG	362	1.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	584	1.1	.0	33.0
S. WL	*	0	0	500	8	* AG	31	1.5	.0	33.0
T. EL	*	0	0	-500	-8	* AG	162	1.5	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (PRED. CONC. INCLUDES AMB.)

RECEPTOR	* PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H	I	J
1. NE3	.3	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
2. SE3	.5	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3. SW3	.5	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
4. NW3	.3	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 20 SOTO AND CHARLOTTE FUTWP
RUN: (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	* TYPE	EF VPH	H (G/MI)	W (FT)	(FT)
A. NF	*	8	-1500	8	-500	* AG	1250	.8	.0	35.0
B. NA	*	8	-500	8	0	* AG	1102	1.5	.0	33.0
C. ND	*	8	0	8	500	* AG	1503	1.1	.0	33.0
D. NE	*	8	500	8	1500	* AG	1503	.8	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1528	.8	.0	35.0
F. SA	*	-8	500	-8	0	* AG	1240	1.5	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1913	1.1	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1913	.8	.0	35.0
I. WF	*	1500	8	500	8	* AG	1412	.8	.0	35.0
J. WA	*	500	8	0	8	* AG	902	1.5	.0	33.0
K. WD	*	0	8	-500	8	* AG	630	1.1	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	630	.8	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	308	.8	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	265	1.3	.0	33.0
O. ED	*	0	-8	500	-8	* AG	452	1.0	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	452	.8	.0	35.0
Q. NL	*	0	0	8	-500	* AG	148	1.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	288	1.1	.0	33.0
S. WL	*	0	0	500	8	* AG	510	1.5	.0	33.0
T. EL	*	0	0	-500	-8	* AG	43	1.3	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* PRED * BRG (DEG)	* CONC * (PPM)	CONC/LINK A	B	C	D	E	F	G	H
1. NE3	* 185.	* .8	* .0	.3	.0	.0	.0	.0	.2	.0
2. SE3	* 355.	* .8	* .0	.0	.3	.0	.0	.2	.0	.0
3. SW3	* 5.	* .7	* .0	.0	.1	.0	.0	.3	.0	.0
4. NW3	* 175.	* .7	* .0	.1	.0	.0	.0	.0	.4	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: 20 SOTO AND CHARLOTTE FUTWP
RUN: .000000E+00
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (FT)
BRG= .0 DEGREES VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. NF	*	8	-1500	8	-500	* AG	1250	.8	.0	35.0
B. NA	*	8	-500	8	0	* AG	1102	1.5	.0	33.0
C. ND	*	8	0	8	500	* AG	1503	1.1	.0	33.0
D. NE	*	8	500	8	1500	* AG	1503	.8	.0	35.0
E. SF	*	-8	1500	-8	500	* AG	1528	.8	.0	35.0
F. SA	*	-8	500	-8	0	* AG	1240	1.5	.0	33.0
G. SD	*	-8	0	-8	-500	* AG	1913	1.1	.0	33.0
H. SE	*	-8	-500	-8	-1500	* AG	1913	.8	.0	35.0
I. WF	*	1500	8	500	8	* AG	1412	.8	.0	35.0
J. WA	*	500	8	0	8	* AG	902	1.5	.0	33.0
K. WD	*	0	8	-500	8	* AG	630	1.1	.0	33.0
L. WE	*	-500	8	-1500	8	* AG	630	.8	.0	35.0
M. EF	*	-1500	-8	-500	-8	* AG	308	.8	.0	35.0
N. EA	*	-500	-8	0	-8	* AG	265	1.3	.0	33.0
O. ED	*	0	-8	500	-8	* AG	452	1.0	.0	33.0
P. EE	*	500	-8	1500	-8	* AG	452	.8	.0	35.0
Q. NL	*	0	0	8	-500	* AG	148	1.1	.0	33.0
R. SL	*	0	0	-8	500	* AG	288	1.1	.0	33.0
S. WL	*	0	0	500	8	* AG	510	1.5	.0	33.0
T. EL	*	0	0	-500	-8	* AG	43	1.3	.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z
1. NE3	*	25	25	6.0
2. SE3	*	25	-25	6.0
3. SW3	*	-25	-25	6.0
4. NW3	*	-25	25	6.0

IV. MODEL RESULTS (PRED. CONC. INCLUDES AMB.)

RECEPTOR	* PRED * CONC * (PPM)	*	A	B	C	D	E	F	G	H	I	J
1. NE3	*	.3	*	.0	.0	.2	.0	.0	.0	.0	.0	.0
2. SE3	*	.5	*	.0	.0	.2	.0	.0	.0	.0	.0	.0
3. SW3	*	.4	*	.0	.0	.0	.0	.0	.2	.0	.0	.0
4. NW3	*	.4	*	.0	.0	.0	.0	.0	.2	.0	.0	.0

RECEPTOR	* CONC/LINK (PPM) *	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: 20 SOTO AND CHARLOTTE FUTWP
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 400. CM ALT= 0. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	*	2	-450	2	-150	* AG	1489	.8	.0	10.5
B. NA	*	2	-150	2	0	* AG	1425	1.3	.0	9.9
C. ND	*	2	0	2	150	* AG	1757	1.0	.0	9.9
D. NE	*	2	150	2	450	* AG	1757	.8	.0	10.5
E. SF	*	-2	450	-2	150	* AG	1252	.8	.0	15.0
F. SA	*	-2	150	-2	0	* AG	988	1.1	.0	9.9
G. SD	*	-2	0	-2	-150	* AG	1587	.9	.0	9.9
H. SE	*	-2	-150	-2	-450	* AG	1587	.8	.0	15.0
I. WF	*	450	2	150	2	* AG	1038	.8	.0	15.0
J. WA	*	150	2	0	2	* AG	656	1.5	.0	9.9
K. WD	*	0	2	-150	2	* AG	357	1.0	.0	9.9
L. WE	*	-150	2	-450	2	* AG	357	.8	.0	15.0
M. EF	*	-450	-2	-150	-2	* AG	388	.8	.0	10.5
N. EA	*	-150	-2	0	-2	* AG	355	1.5	.0	9.9
O. ED	*	0	-2	150	-2	* AG	466	1.1	.0	9.9
P. EE	*	150	-2	450	-2	* AG	466	.8	.0	10.5
Q. NL	*	0	0	2	-150	* AG	64	1.1	.0	9.9
R. SL	*	0	0	-2	150	* AG	264	1.5	.0	9.9
S. WL	*	0	0	150	2	* AG	382	1.3	.0	9.9
T. EL	*	0	0	-150	-2	* AG	33	.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. NE3	*	8	8	1.8
2. SE3	*	8	-8	1.8
3. SW3	*	-8	-8	1.8
4. NW3	*	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* PRED * BRG (DEG)	* CONC * (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	* 185.	* .7	* .0	.3	.0	.0	.0	.0	.1	.0
2. SE3	* 355.	* .7	* .0	.0	.3	.0	.0	.0	.0	.0
3. SW3	* 84.	* .5	* .0	.0	.0	.0	.0	.0	.1	.0
4. NW3	* 175.	* .6	* .0	.2	.0	.0	.0	.0	.3	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* .0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Annual Emissions Report and Scaling for Buildout

PERMITTED SOURCES SCALING

20197 Facility ID
1200 N STATE ST

2013 EMISSIONS YEAR -> http://www3.aqmd.gov/webappl/fim/prog/emission.aspx?fac_id=20197

		tons/yr	lbs/day on average	aled new M	net new
CO	Carbon Monoxide	15.401	84.3890411	104.0	19.6
NOX	Nitrogen Oxides	3.727	20.42191781	25.2	4.7
ROG	Reactive Organic Gases	8.752	47.95616438	59.1	11.1
SOX	Sulfur Oxides	0.135	0.739726027	0.9	0.2
TSP	Total Suspended Particulates	5.154	28.24109589	34.8	6.6

		pounds/yr
106990	1,3-Butadiene	1.388
7664417	Ammonia	1303.856
7440382	Arsenic	0.01
71432	Benzene	3.791
7440439	Cadmium	0.009
18540299	Chromium (VI)	0
1104	FLUOROCARB (CL)	2398
50000	Formaldehyde	510.054
7439921	Lead (inorganic)	0.053
91203	Naphthalene	0.26
7440020	Nickel	0.025
1151	PAHs, total, with components not reported	0.278

	ROG	NOX	CO	SO2	PM10	PM2.5
Ex	48.0	20.4	84.4	0.7	28.2	28.2
NP	48.0	20.4	84.4	0.7	28.2	28.2
Proj	59.1	25.2	104.0	0.9	34.8	34.8

Entire Campus

existing 1,400,000 (includes uses to be replaced)

with MP 1,725,000 (1,430,000 sf in TIA plus 450 beds. Total SF from Master Plan)

ratio for scaling AER 1.232143

365 days

0.0005 ton to lb

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Emissions

Facility ID	20197
Company Name	LAC/USC MEDICAL CENTER
Address	1200 N STATE ST
	LOS ANGELES, CA 90033

Select AER Year: 2013

Criteria Pollutants (Tons per Year):

Pollutant ID	Pollutant Description	Annual Emissions
CO	Carbon Monoxide	15.401
NOX	Nitrogen Oxides	3.727
ROG	Reactive Organic Gases	8.752
SOX	Sulfur Oxides	0.135
TSP	Total Suspended Particulates	5.154

Toxic Pollutants (Pounds per Year):

Pollutant ID	Pollutant Description	Annual Emissions
106990	1,3-Butadiene	1.388
7664417	Ammonia	1303.856
7440382	Arsenic	0.010
71432	Benzene	3.791
7440439	Cadmium	0.009
18540299	Chromium (VI)	0.000
1104	FLUOROCARB (CL)	2398.000
50000	Formaldehyde	510.054
7439921	Lead (inorganic)	0.053
91203	Naphthalene	0.260
7440020	Nickel	0.025
1151	PAHs, total, with components not reported	0.278

Note - Data for 2007 represents the six-month transitional period, July through December 2007, when the rules requiring annual emissions reporting changed from a fiscal year to a calendar year basis.

Health Risk Assessment Scaling

HRA scaling

	risk	burden	acute	chronic	
2007 HRA	7.5	0.031	0.7	0.38	
EPP	9.2	0.038	0.9	0.47	scaled based on change in ft2
net	1.7	0.007	0.2	0.09	
thresholds	*10*	*0.5*	*1.0*	*1.0*	

	Entire Campus
existing	1,400,000
with MP	1,725,000
scaling AER	1.232142857

HRA:
http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2014/2014-jul11-039.pdf?sfvrsn=2

Appendix A-1. Continued.

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
800089	A	EXXON-MOBIL OIL CORPORATION	Torrance	7.7	0.15	0.21	0.47	2013
18294	A	NORTHROP CORP., AIRCRAFT DIV. - WEST	El Segundo	7.60	n/a	0.13	0.05	2000
113170	A	SANTA MONICA HOSPITAL MEDICAL CTR UNIT 2 (b)	Santa Monica	7.60	0.000	0.17	0.01	1997
800214	A	LA CITY, HYPERION TREATMENT PLANT (c)	Playa del Rey	7.59	0.027	0.06	0.01	1999
20197	A	LAC/USC MEDICAL CENTER	Los Angeles	7.50	0.031	0.70	0.38	2007
800032	A	CHEVRON U.S.A. INC	Montebello	7.46	0.143	0.01	0.18	1999
800150	A	US GOVT., AF DEPT, MARCH AFB	Riverside	7.35	0.020	0.31	0.01	2008
108701	OB (2007)	BALL FOSTER GLASS CONTAINER CO.	El Monte	7.30	0.056	0.09	0.07	2000
117560	A	EQUILON ENTER, LLC-SHELL OIL PROD. US	Wilmington	7.30	n/a	0.03	0.07	1998
131003	A	BP WEST COAST PRODUCTS LLC	Carson	7.28	n/a	0.30	0.08	2000
800026	A	ULTRAMAR INC.	Wilmington	7.2	0.18	0.70	0.23	2012
800113	A	ROHR IND INC	Riverside	7.20	0.011	0.86	0.02	2007
800236	A	LA CO., SANITATION DIST UNIT NO.01	Carson	7.20	0.058	0.17	0.12	2007
49387	A	UNIV CAL RIVERSIDE	Riverside	7.13	0.220	0.00	0.04	1999
57094	A	G S ROOFING PRODUCTS CO INC (c)	Wilmington	7.00	n/a	0.01	0.01	2000
140499	A	AMERESCO HUNTINGTON BEACH, LLC	Huntington Beach	7.00	n/a	<0.01	<0.01	1995
55449	A	BKK CORPORATION, LANDFILL DIVISION GNRL	W. Covina	6.90	n/a	0.01	0.10	2000
800372	A	EQUILON ENTERPRISES,LLC	Carson	6.90	0.030	0.44	0.07	2001
20280	A	METAL SURFACES INC.	Bell Gardens	6.8	0.000	0.88	0.34	2011
42514	A	LA CO., SANITATION DIST., CALABASAS LANDFILL	Agoura	6.78	0.00	0.02	<0.01	2010
5723	A	AEROCHEM INC	Orange	6.70	0.004	0.02	0.10	1999

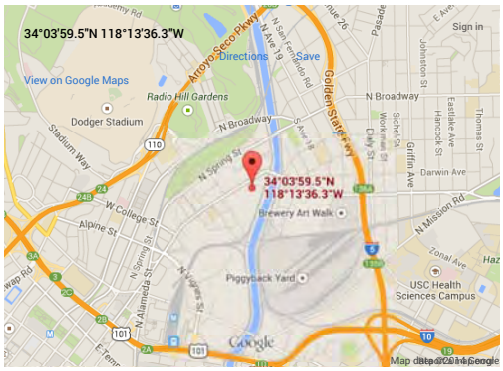
Ambient Background Information

California Environmental Protection Agency
Air Resources Board

Quality Assurance Air Monitoring Site Information

This page last reviewed on November 21, 2011

Site Information for
Los Angeles-North Main Street



View Larger Map

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371103	70087	3/1/78	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude (N)	Longitude (W)	Elevation (m)
1630 North Main Street, Los Angeles CA 90012	Los Angeles	South Coast	34.06653	-118.22676	92

Pollutants Monitored (click on parameter link for real-time data) Note: multiple monitors may be available through the AQMIS query tool.
CO, SO_2, NO_2, O_3, Total NMHC, PM_{10}, BAM_{PM10}, $BAM_{PM2.5}$, $PM_{2.5}$, TSP, Toxics, Cr^{6+}, Relative Humidity, Wind Direction, Horizontal Wind Speed, Solar Radiation

Site Photos	Photo Sequences	Site Surveys
--Select Photos--	--Select Position And Direction--	--Select Survey--

Other ARB Database Information	Real-Time Met Data
--Select Database--	--Select Data Server--

Site Information Menu Top Page Quality Assurance Programs Search QA Site Information Database

For real-time air quality data visit: Air Quality and Meteorological Information System (AQMIS)

Questions regarding data or the AQMIS search tool should be submitted to:
Air Quality and Meteorological Information System (AQMIS)

For Air Monitoring Site related inquiries, please contact:
Mr. Ranjit Bhullar, Manager
Quality Assurance Section

California Environmental Protection Agency
Air Resources Board

Top 4 Summary: Highest 4 Daily Maximum Hourly Ozone Measurements

at Los Angeles-North Main Street

iADAM

	2011		2012		2013	
	Date	Measurement	Date	Measurement	Date	Measurement
First High:	Sep 7	0.087	Sep 22	0.093	May 13	0.081
Second High:	Aug 27	0.080	Sep 23	0.089	May 12	0.079
Third High:	Aug 28	0.080	Sep 9	0.085	May 3	0.078
Fourth High:	Sep 5	0.079	Sep 30	0.084	Sep 7	0.075
California:						
# Days Above the Standard:		0		0		0
California Designation Value:		0.09		0.09		0.09
Expected Peak Day Concentration:		0.093		0.089		0.087
National:						
# Days Above the Standard:		*0*		*0*		*0*
Nat'l Standard Design Value:		*0.098*		*0.089*		*0.085*
Year Coverage:		89		91		87

Notes:

Hourly ozone measurements and related statistics are available at Los Angeles-North Main Street between 1979 and 2013. Some years in this range may not be represented.
All concentrations expressed in parts per million.
The national 1-hour ozone standard was revoked in June 2005 and is no longer in effect. Statistics related to the revoked standard are shown in *italics* or *italics* .
An exceedance of a standard is not necessarily related to a violation of the standard.
Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
* means there was insufficient data available to determine the value.

Available Pollutants:

8-Hour Ozone | Hourly Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | State Sulfur Dioxide | Hydrogen Sulfide

California Environmental Protection Agency
Air Resources Board

Top 4 Summary: Highest 4 Daily Maximum 8-Hour Ozone Averages

at Los Angeles-North Main Street

iADAM

	2011		2012		2013	
	Date	8-Hr Average	Date	8-Hr Average	Date	8-Hr Average
National:						
First High:	Sep 5	0.065	Sep 30	0.077	May 3	0.069
Second High:	Sep 7	0.064	Sep 15	0.074	May 12	0.062
Third High:	Jul 4	0.061	Sep 23	0.069	Oct 6	0.061
Fourth High:	Aug 28	0.060	Sep 22	0.068	Aug 15	0.060
California:						
First High:	Sep 5	0.065	Sep 30	0.077	May 3	0.070
Second High:	Sep 7	0.064	Sep 15	0.075	May 12	0.062
Third High:	Jul 4	0.062	Sep 22	0.069	Aug 15	0.061
Fourth High:	Aug 28	0.061	Sep 23	0.069	Sep 15	0.061
National:						
# Days Above the Standard:		0		1		0
Nat'l Standard Design Value:		0.065		0.064		0.062
National Year Coverage:		88		89		89
California:						
# Days Above the Standard:		0		2		0
California Designation Value:		0.073		0.069		0.070
Expected Peak Day Concentration:		0.074		0.071		0.070
California Year Coverage:		87		87		82

Notes:

Eight-hour ozone averages and related statistics are available at Los Angeles-North Main Street between 1979 and 2013. Some years in this range may not be represented.
All averages expressed in parts per million.
An exceedance of a standard is not necessarily related to a violation of the standard.
Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
* means there was insufficient data available to determine the value.

Available Pollutants:

8-Hour Ozone | Hourly Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | State Sulfur Dioxide | Hydrogen Sulfide

California Environmental Protection Agency
Air Resources Board

Top 4 Summary: Highest 4 Daily Maximum Hourly Nitrogen Dioxide Measurements

at Los Angeles-North Main Street

	2011		2012		2013	
	Date	Measurement	Date	Measurement	Date	Measurement
National:						
First High:	Sep 7	109.6	Nov 23	77.3	Mar 14	90.3
Second High:	Dec 30	97.5	Oct 17	74.4	Nov 12	82.6
Third High:	Sep 27	88.6	Apr 4	72.0	May 13	80.7
Fourth High:	Dec 31	79.3	Oct 29	71.9	Sep 5	69.1
California:						
First High:	Sep 7	109	Nov 23	77	Mar 14	90
Second High:	Dec 30	97	Oct 17	74	Nov 12	82
Third High:	Sep 27	88	Apr 4	72	May 13	80
Fourth High:	Dec 31	79	Oct 29	71	Sep 5	69
National:						
1-Hour Standard Design Value:		*		*		*
1-Hour Standard 98th Percentile:		67.0		68.9		62.5
# Days Above the Standard:		1		0		0
Annual Standard Design Value:		23		*		22
California:						
1-Hour Std Designation Value:		90		90		80
Expected Peak Day Concentration:		91		86		84
# Days Above the Standard:		0		0		0
Annual Std Designation Value:		25		25		*
Annual Average:		*		*		*
Year Coverage:		86		76		75

Notes:

Hourly nitrogen dioxide measurements and related statistics are available at Los Angeles-North Main Street between 1979 and 2013. Some years in this range may not be represented.

All concentrations expressed in parts per billion.

An exceedance of a standard is not necessarily related to a violation of the standard.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Available Pollutants:

8-Hour Ozone | Hourly Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | State Sulfur Dioxide | Hydrogen Sulfide

California Environmental Protection Agency
Air Resources Board

Top 4 Summary: Highest 4 Daily 24-Hour PM2.5 Averages

at Los Angeles-North Main Street

	2011		2012		2013	
	Date	24-Hr Average	Date	24-Hr Average	Date	24-Hr Average
National:						
First High:	Dec 31	49.3	Dec 9	58.7	Feb 5	43.1
Second High:	Dec 30	44.1	Dec 8	44.0	Mar 15	33.1
Third High:	Oct 24	41.7	Dec 7	39.1	Jul 5	31.4
Fourth High:	Oct 23	39.6	Nov 7	36.4	Oct 21	31.3
California:						
First High:	Dec 31	49.3	Dec 9	58.7	Feb 5	43.1
Second High:	Dec 30	44.1	Dec 8	44.0	Mar 15	33.1
Third High:	Oct 24	41.7	Dec 7	39.1	Jul 5	31.4
Fourth High:	Oct 23	39.6	Nov 7	36.4	Oct 21	31.3
National:						
Estimated # Days > 24-Hour Std:		4.5		4.2		1.1
Measured # Days > 24-Hour Std:		4		4		1
24-Hour Standard Design Value:		31		30		31
24-Hour Standard 98th Percentile:		31.5		32.0		29.0
Annual Standard Design Value:		13.0		12.5		12.5
Annual Average:		12.9		12.5		12.0
California:						
Annual Std Designation Value:		16		13		13
Annual Average:		13.3		12.7		12.0
Year Coverage:		90		92		95

Notes:

Daily PM2.5 averages and related statistics are available at Los Angeles-North Main Street between 1999 and 2013. Some years in this range may not be represented.
All averages expressed in micrograms per cubic meter.
An exceedance of a standard is not necessarily related to a violation of the standard.
State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers.
Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
* means there was insufficient data available to determine the value.

Available Pollutants:

8-Hour Ozone | Hourly Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | State Sulfur Dioxide | Hydrogen Sulfide

California Environmental Protection Agency
Air Resources Board

Top 4 Summary: Highest 4 Daily 24-Hour PM10 Averages

at Los Angeles-North Main Street

	2011		2012		2013	
	Date	24-Hr Average	Date	24-Hr Average	Date	24-Hr Average
National:						
First High:	Oct 24	53.0	May 21	80.0	Nov 12	57.0
Second High:	Dec 29	50.0	Jun 8	74.0	Oct 25	46.0
Third High:	Oct 18	45.0	Jun 26	64.0	Dec 18	45.0
Fourth High:	Apr 15	44.0	Apr 3	55.0	Jun 21	40.0
California:						
First High:	Dec 1	119.7	Dec 9	90.9	Feb 5	74.5
Second High:	Nov 30	72.3	May 21	79.7	Oct 21	64.5
Third High:	Dec 31	70.2	Dec 8	72.0	Mar 25	63.5
Fourth High:	Dec 2	69.0	Dec 7	70.9	Mar 15	62.4
National:						
Estimated # Days > 24-Hour Std:		0.0		0.0		0.0
Measured # Days > 24-Hour Std:		0		0		0
3-Yr Avg Est # Days > 24-Hr Std:		0.0		0.0		0.0
Annual Average:		*29.0*		*30.2*		*29.5*
3-Year Average:		*30*		*29*		*30*
California:						
Estimated # Days > 24-Hour Std:		6.5		24.2		21.4
Measured # Days > 24-Hour Std:		9		43		20
Annual Average:		28.7		30.0		35.3
3-Year Maximum Annual Average:		29		30		35
Year Coverage:		97		99		97

Notes:

Daily PM10 averages and related statistics are available at Los Angeles-North Main Street between 1988 and 2013. Some years in this range may not be represented.
All averages expressed in micrograms per cubic meter.
The national annual average PM10 standard was revoked in December 2006 and is no longer in effect. Statistics related to the revoked standard are shown in *italics* or *italics* .
An exceedance of a standard is not necessarily related to a violation of the standard.
All values listed above represent midnight-to-midnight 24-hour averages and may be related to an exceptional event.
State and national statistics may differ for the following reasons:
- State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers.
- State statistics for 1998 and later are based on local conditions (except for sites in the South Coast Air Basin, where State statistics for 2002 and later are based on local conditions). National statistics are based on standard conditions.
- State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.

Measurements are usually collected every six days. Measured days counts the days that a measurement was greater than the level of the standard; Estimated days mathematically estimates how many days concentrations would have been greater than the level of the standard had each day been monitored.
3-Year statistics represent the listed year and the 2 years before the listed year.
Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
* means there was insufficient data available to determine the value.

Available Pollutants:

8-Hour Ozone | Hourly Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | State Sulfur Dioxide | Hydrogen Sulfide

Monitor Values Report

Geographic Area: Los Angeles County, CA
Pollutant: CO
Year: 2012
Exceptional Events: Included (if any)

Duration Description=1 HOUR

Duration Description	Obs	First Max	Second Max	Actual Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
1 HOUR	8070	1.8	1.6	0	None	1	060370002	803 N. Loren Ave., Azusa	Azusa	Los Angeles	CA	09
1 HOUR	8085	1.3	1.3	0	None	2	060370016	840 Laurel, Glendora	Glendora	Los Angeles	CA	09
1 HOUR	8046	2.1	1.7	0	Included	1	060370113	Va Hospital, West Los Angeles	West Los Angeles	Los Angeles	CA	09
1 HOUR	8119	2.8	2.7	0	None	1	060371002	228 W. Palm Ave., Burbank	Burbank	Los Angeles	CA	09
1 HOUR	7948	2.2	2.1	0	None	1	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
1 HOUR	3674	2	1.9	0	None	9	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
1 HOUR	8185	3.4	3.3	0	None	1	060371201	18330 Gault St., Reseda	Reseda	Los Angeles	CA	09
1 HOUR	8068	5.2	4.8	0	None	1	060371302	700 North Bullis Road	Compton	Los Angeles	CA	09
1 HOUR	7891	2.7	2.4	0	None	1	060371602	4144 San Gabriel River Pkwy, Pico Rivera	Pico Rivera	Los Angeles	CA	09
1 HOUR	8127	2.5	2.1	0	None	1	060371701	924 N. Garey Ave., Pomona	Pomona	Los Angeles	CA	09
1 HOUR	7120	2.4	2.4	0	None	1	060372005	752 S. Wilson Ave., Pasadena	Pasadena	Los Angeles	CA	09
1 HOUR	7853	2.6	2.5	0	None	1	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09
1 HOUR	4712	4.2	3.9	0	None	1	060374006	2425 Webster St., Long Beach, Ca	Long Beach	Los Angeles	CA	09
1 HOUR	8117	2.8	2.6	0	None	1	060375005	7201 W. Westchester Parkway	Los Angeles	Los Angeles	CA	09
1 HOUR	7882	1.3	1.2	0	None	1	060376012	22224 Placerita Canyon Rd, Santa Clarita	Santa Clarita	Los Angeles	CA	09
1 HOUR	8274	1.9	1.8	0	None	1	060379033	43301 Division St., Lancaster, Ca	Lancaster	Los Angeles	CA	09

Get detailed information about this report, including column descriptions, at http://www.epa.gov/airquality/airdata/ad_about_reports.html#mon

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Readers are cautioned not to rank order geographic areas based on AirData reports. Air pollution levels measured at a particular monitoring site are not necessarily representative of the air quality for an entire county or urban area.

This report is based on monitor-level summary statistics. Air quality standards for some pollutants (PM2.5 and Pb) allow for combining data from multiple monitors into a site-level summary statistic that can be compared to the standard. In those cases, the site-level statistics may differ from the monitor-level statistics upon which this report is based.

Source: U.S. EPA AirData <http://www.epa.gov/airdata>
Generated: July 21, 2014

Monitor Values Report

Geographic Area: Los Angeles County, CA
Pollutant: CO
Year: 2012
Exceptional Events: Included (if any)

Duration Description=8-HR RUN AVG END HOUR

Duration Description	Obs	First Max	Second Max	Actual Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
8-HR RUN AVG END HOUR	8582	1.2	1.2	0	None	1	060370002	803 N. Loren Ave., Azusa	Azusa	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8485	1.1	0.9	0	None	2	060370016	840 Laurel, Glendora	Glendora	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8508	1.4	1.3	0	Included	1	060370113	Va Hospital, West Los Angeles	West Los Angeles	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8501	2.4	2.1	0	None	1	060371002	228 W. Palm Ave., Burbank	Burbank	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8347	1.9	1.9	0	None	1	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
8-HR RUN AVG END HOUR	3812	1.8	1.7	0	None	9	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8597	2.8	2.6	0	None	1	060371201	18330 Gault St., Reseda	Reseda	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8474	4	3.9	0	None	1	060371302	700 North Bullis Road	Compton	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8331	2.2	2	0	None	1	060371602	4144 San Gabriel River Pkwy, Pico Rivera	Pico Rivera	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8597	1.5	1.3	0	None	1	060371701	924 N. Garey Ave., Pomona	Pomona	Los Angeles	CA	09
8-HR RUN AVG END HOUR	7470	1.6	1.6	0	None	1	060372005	752 S. Wilson Ave., Pasadena	Pasadena	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8411	2.2	2.2	0	None	1	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09
8-HR RUN AVG END HOUR	5034	2.6	2.6	0	None	1	060374006	2425 Webster St., Long Beach, Ca	Long Beach	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8372	2.5	2.3	0	None	1	060375005	7201 W. Westchester Parkway	Los Angeles	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8302	1.1	0.8	0	None	1	060376012	22224 Placerita Canyon Rd, Santa Clarita	Santa Clarita	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8582	1.4	1.1	0	None	1	060379033	43301 Division St., Lancaster, Ca	Lancaster	Los Angeles	CA	09

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Source: U.S. EPA AirData <http://www.epa.gov/airdata>
Generated: July 21, 2014

Monitor Values Report

Geographic Area: Los Angeles County, CA
Pollutant: CO
Year: 2013
Exceptional Events: Included (if any)

Duration Description=1 HOUR

Duration Description	Obs	First Max	Second Max	Actual Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
1 HOUR	8055	3.1	2.8	0	None	1	060370002	803 N. Loren Ave., Azusa	Azusa	Los Angeles	CA	09
1 HOUR	8146	1	0.9	0	None	2	060370016	840 Laurel, Glendora	Glendora	Los Angeles	CA	09
1 HOUR	8003	1.9	1.9	0	None	1	060370113	Va Hospital, West Los Angeles	West Los Angeles	Los Angeles	CA	09
1 HOUR	7892	3	2.8	0	None	1	060371002	228 W. Palm Ave., Burbank	Burbank	Los Angeles	CA	09
1 HOUR	7990	2.5	2.5	0	None	1	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
1 HOUR	7756	2.2	2.1	0	None	9	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
1 HOUR	7590	2.9	2.9	0	None	1	060371201	18330 Gault St., Reseda	Reseda	Los Angeles	CA	09
1 HOUR	7927	5.8	5.6	0	None	1	060371302	700 North Bullis Road	Compton	Los Angeles	CA	09
1 HOUR	7871	3.6	2.4	0	None	1	060371602	4144 San Gabriel River Pkwy, Pico Rivera	Pico Rivera	Los Angeles	CA	09
1 HOUR	7903	2.2	2.1	0	None	1	060371701	924 N. Garey Ave., Pomona	Pomona	Los Angeles	CA	09
1 HOUR	3991	2.5	2.5	0	None	1	060372005	752 S. Wilson Ave., Pasadena	Pasadena	Los Angeles	CA	09
1 HOUR	5874	2.7	2.6	0	None	1	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09
1 HOUR	7500	4.1	3.5	0	None	1	060374006	2425 Webster St., Long Beach, Ca	Long Beach	Los Angeles	CA	09
1 HOUR	6512	3.1	3	0	None	1	060375005	7201 W. Westchester Parkway	Los Angeles	Los Angeles	CA	09
1 HOUR	8009	1.3	1.2	0	None	1	060376012	22224 Placerita Canyon Rd, Santa Clarita	Santa Clarita	Los Angeles	CA	09
1 HOUR	6995	1.9	1.8	0	None	1	060379033	43301 Division St., Lancaster, Ca	Lancaster	Los Angeles	CA	09

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Source: U.S. EPA AirData <http://www.epa.gov/airdata>
Generated: July 21, 2014

Monitor Values Report

Geographic Area: Los Angeles County, CA
Pollutant: CO
Year: 2013
Exceptional Events: Included (if any)

Duration Description=8-HR RUN AVG END HOUR

Duration Description	Obs	First Max	Second Max	Actual Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
8-HR RUN AVG END HOUR	8477	1.7	1.5	0	None	1	060370002	803 N. Loren Ave., Azusa	Azusa	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8519	0.8	0.7	0	None	2	060370016	840 Laurel, Glendora	Glendora	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8446	1.3	1.2	0	None	1	060370113	Va Hospital, West Los Angeles	West Los Angeles	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8247	2.4	2.1	0	None	1	060371002	228 W. Palm Ave., Burbank	Burbank	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8200	2	1.8	0	None	1	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8216	1.7	1.5	0	None	9	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
8-HR RUN AVG END HOUR	7959	2.3	2.2	0	None	1	060371201	18330 Gault St., Reseda	Reseda	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8424	3.5	3.4	0	None	1	060371302	700 North Bullis Road	Compton	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8283	2	1.7	0	None	1	060371602	4144 San Gabriel River Pkwy, Pico Rivera	Pico Rivera	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8313	1.5	1.5	0	None	1	060371701	924 N. Garey Ave., Pomona	Pomona	Los Angeles	CA	09
8-HR RUN AVG END HOUR	4195	1.7	1.7	0	None	1	060372005	752 S. Wilson Ave., Pasadena	Pasadena	Los Angeles	CA	09
8-HR RUN AVG END HOUR	6166	1.9	1.9	0	None	1	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8036	2.6	2.3	0	None	1	060374006	2425 Webster St., Long Beach, Ca	Long Beach	Los Angeles	CA	09
8-HR RUN AVG END HOUR	6878	2.5	2.5	0	None	1	060375005	7201 W. Westchester Parkway	Los Angeles	Los Angeles	CA	09
8-HR RUN AVG END HOUR	8594	0.8	0.6	0	None	1	060376012	22224 Placerita Canyon Rd, Santa Clarita	Santa Clarita	Los Angeles	CA	09
8-HR RUN AVG END HOUR	7423	1.2	1.1	0	None	1	060379033	43301 Division St., Lancaster, Ca	Lancaster	Los Angeles	CA	09

Get detailed information about this report, including column descriptions, at http://www.epa.gov/airquality/airdata/ad_about_reports.html#mon

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This report is based on monitor-level summary statistics. Air quality standards for some pollutants (PM2.5 and Pb) allow for combining data from multiple monitors into a site-level summary statistic that can be compared to the standard. In those cases, the site-level statistics may differ from the monitor-level statistics upon which this report is based.

Source: U.S. EPA AirData <http://www.epa.gov/airdata>
Generated: July 21, 2014

EPA United States Environmental Protection Agency

AirData

Monitor Values Report

This report displays criteria pollutant summary data for individual monitoring sites. Read more about what's in this report.

1. Pollutant

Pb

2. Year

2011

3. Geographic Area

Select a State ...

-- or --

Select a City (defined as CBSA) ...

-- or --

CA - Los Angeles

4. Exceptional Events

- (•) Include exceptional events data
- ( ) Exclude exceptional events data

Geographic Area: Los Angeles County, CA
Pollutant: Pb
Year: 2011
Exceptional Events: Included (if any)
About this report

EPA Air Quality Standards:
Lead: 0.15 ug/m3 (3-month avg)
The 3-month avg statistic currently is not available from the AQS Data Mart. Annual 1st-4th maxes will be provided until the 3-month avg becomes available.

The following data links are active for the next 10 minutes, after which you must resubmit your query.
Download PDF (printable page)
Download CSV (spreadsheet)

To sort a column in the table below, click on the column heading.

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	16	0.024	0.017	0.013	0.011	None	4	060370002	803 N. Loren Ave., Azusa	Azusa	Los Angeles	CA	09
24 HOUR	17	0.021	0.013	0.011	0.01	None	7	060371002	228 W. Palm Ave., Burbank	Burbank	Los Angeles	CA	09
24 HOUR	58	0.017	0.017	0.017	0.017	None	2	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
24 HOUR	53	0.017	0.017	0.016	0.015	None	3	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
24 HOUR	12	0.015	0.015	0.014	0.012	None	7	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
24 HOUR	57	0.019	0.016	0.015	0.015	None	1	060371302	700 North Bullis Road	Compton	Los Angeles	CA	09
24 HOUR	60	0.14	0.131	0.083	0.081	None	1	060371402	16345 Raymer (Lot A), Van Nuys, Ca 91406-1212	Los Angeles	Los Angeles	CA	09
24 HOUR	61	0.257	0.238	0.235	0.233	None	1	060371403	9440 Ann Street, Santa Fe Springs, Ca 90670	Santa Fe Springs	Los Angeles	CA	09
24 HOUR	57	0.135	0.122	0.077	0.072	None	1	060371404	500 S. 7th Ave. City Of Industry, Ca 91746	Industry (corporate name for City of Industry)	Los Angeles	CA	09
24 HOUR	132	2.72	2.57	1.89	1.64	None	1	060371405	4010 E. 26th Street, Vernon, Ca 90058	Vernon	Los Angeles	CA	09
24 HOUR	122	2.37	1.2	1.1	0.914	None	2	060371405	4010 E. 26th Street, Vernon, Ca 90058	Vernon	Los Angeles	CA	09
24 HOUR	133	4.49	1.8	1.63	1.54	None	3	060371405	4010 E. 26th Street, Vernon, Ca 90058	Vernon	Los Angeles	CA	09
24 HOUR	120	0.445	0.205	0.165	0.126	None	1	060371406	Rail Road Yard Washington Blvd., Commerce, Ca 90058	Commerce	Los Angeles	CA	09
24 HOUR	59	0.019	0.014	0.014	0.013	None	1	060371602	4144 San Gabriel River Pkwy, Pico Rivera	Pico Rivera	Los Angeles	CA	09
24 HOUR	59	0.012	0.012	0.012	0.012	None	2	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	56	0.014	0.012	0.012	0.012	None	3	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09
24 HOUR	22	0.013	0.011	0.01	0.009	None	7	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09
24 HOUR	56	0.018	0.015	0.014	0.013	None	2	060374004	1305 E. Pacific Coast Hwy., Long Beach	Long Beach	Los Angeles	CA	09
24 HOUR	55	0.01	0.01	0.009	0.009	None	1	060375005	7201 W. Westchester Parkway	Los Angeles	Los Angeles	CA	09

http://www.epa.gov/airdata/ad_rep_mon.html

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This report is based on monitor-level summary statistics. Air quality standards for some pollutants (PM2.5 and Pb) allow for combining data from multiple monitors into a site-level summary statistic that can be compared to the standard. In those cases, the site-level statistics may differ from the monitor-level statistics upon which this report is based.

Last updated on Friday, July 11, 2014

EPA United States Environmental Protection Agency

AirData

Monitor Values Report

This report displays criteria pollutant summary data for individual monitoring sites. Read more about what's in this report.

1. Pollutant

Pb

2. Year

2012

3. Geographic Area

Select a State ...

-- or --

Select a City (defined as CBSA) ...

-- or --

CA - Los Angeles

4. Exceptional Events

- (•) Include exceptional events data
- ( ) Exclude exceptional events data

Geographic Area: Los Angeles County, CA
Pollutant: Pb
Year: 2012
Exceptional Events: Included (if any)
About this report

EPA Air Quality Standards:
Lead: 0.15 ug/m3 (3-month avg)
The 3-month avg statistic currently is not available from the AQS Data Mart. Annual 1st-4th maxes will be provided until the 3-month avg becomes available.

The following data links are active for the next 10 minutes, after which you must resubmit your query.
Download PDF (printable page)
Download CSV (spreadsheet)

To sort a column in the table below, click on the column heading.

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	30	0.011	0.01	0.009	0.009	None	4	060370002	803 N. Loren Ave., Azusa	Azusa	Los Angeles	CA	09
24 HOUR	29	0.018	0.01	0.01	0.01	None	7	060371002	228 W. Palm Ave., Burbank	Burbank	Los Angeles	CA	09
24 HOUR	51	0.024	0.018	0.016	0.015	None	2	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
24 HOUR	53	0.027	0.016	0.014	0.013	None	3	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
24 HOUR	20	0.03	0.013	0.011	0.011	None	7	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
24 HOUR	51	0.016	0.013	0.013	0.012	None	1	060371302	700 North Bullis Road	Compton	Los Angeles	CA	09
24 HOUR	44	0.215	0.173	0.151	0.129	None	1	060371402	16345 Raymer (Lot A), Van Nuys, Ca 91406-1212	Los Angeles	Los Angeles	CA	09
24 HOUR	55	0.366	0.207	0.135	0.123	None	1	060371403	9440 Ann Street, Santa Fe Springs, Ca 90670	Santa Fe Springs	Los Angeles	CA	09
24 HOUR	61	0.058	0.051	0.051	0.047	None	1	060371404	500 S. 7th Ave. City Of Industry, Ca 91746	Industry (corporate name for City of Industry)	Los Angeles	CA	09
24 HOUR	134	0.339	0.298	0.284	0.24	None	1	060371405	4010 E. 26th Street, Vernon, Ca 90058	Vernon	Los Angeles	CA	09
24 HOUR	120	0.335	0.223	0.188	0.174	None	2	060371405	4010 E. 26th Street, Vernon, Ca 90058	Vernon	Los Angeles	CA	09
24 HOUR	132	0.384	0.303	0.282	0.241	None	3	060371405	4010 E. 26th Street, Vernon, Ca 90058	Vernon	Los Angeles	CA	09
24 HOUR	119	0.259	0.08	0.06	0.036	None	1	060371406	Rail Road Yard Washington Blvd., Commerce, Ca 90058	Commerce	Los Angeles	CA	09
24 HOUR	60	0.016	0.012	0.011	0.011	None	1	060371602	4144 San Gabriel River Pkwy, Pico Rivera	Pico Rivera	Los Angeles	CA	09
24 HOUR	58	0.008	0.008	0.008	0.007	None	2	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	55	0.008	0.008	0.007	0.007	None	3	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09
24 HOUR	26	0.01	0.008	0.008	0.007	None	7	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09
24 HOUR	58	0.011	0.009	0.008	0.008	None	2	060374004	1305 E. Pacific Coast Hwy., Long Beach	Long Beach	Los Angeles	CA	09
24 HOUR	51	0.008	0.006	0.005	0.005	None	1	060375005	7201 W. Westchester Parkway	Los Angeles	Los Angeles	CA	09

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Last updated on Friday, July 11, 2014

AirData

Monitor Values Report

This report displays criteria pollutant summary data for individual monitoring sites. Read more about what's in this report.

1. Pollutant

Pb

2. Year

2013

3. Geographic Area

Select a State ...

-- or --

Select a City (defined as CBSA) ...

-- or --

CA - Los Angeles

4. Exceptional Events

Include exceptional events data

Exclude exceptional events data

Geographic Area: Los Angeles County, CA
Pollutant: Pb
Year: 2013
Exceptional Events: Included (if any)
About this report

EPA Air Quality Standards:
Lead: 0.15 ug/m3 (3-month avg)
The 3-month avg statistic currently is not available from the AQS Data Mart. Annual 1st-4th maxes will be provided until the 3-month avg becomes available.

The following data links are active for the next 10 minutes, after which you must resubmit your query.
Download PDF (printable page)
Download CSV (spreadsheet)

To sort a column in the table below, click on the column heading.

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	5	0.004	0.003	0.002	0.001	None	4	060370002	803 N. Loren Ave., Azusa	Azusa	Los Angeles	CA	09
24 HOUR	5	0.014	0.011	0.005	0.004	None	7	060371002	228 W. Palm Ave., Burbank	Burbank	Los Angeles	CA	09
24 HOUR	60	0.019	0.014	0.013	0.013	None	2	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
24 HOUR	59	0.015	0.013	0.012	0.012	None	3	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
24 HOUR	1	0.006	.	.	.	None	7	060371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles	CA	09
24 HOUR	58	0.018	0.016	0.016	0.014	None	1	060371302	700 North Bullis Road	Compton	Los Angeles	CA	09
24 HOUR	18	0.23	0.183	0.1	0.092	None	1	060371402	16345 Raymer (Lot A), Van Nuys, Ca 91406-1212	Los Angeles	Los Angeles	CA	09
24 HOUR	57	0.126	0.121	0.12	0.119	None	1	060371403	9440 Ann Street, Santa Fe Springs, Ca 90670	Santa Fe Springs	Los Angeles	CA	09
24 HOUR	59	0.244	0.072	0.053	0.043	None	1	060371404	500 S. 7th Ave. City Of Industry, Ca 91746	Industry (corporate name for City of Industry)	Los Angeles	CA	09
24 HOUR	130	0.391	0.365	0.358	0.182	None	1	060371405	4010 E. 26th Street, Vernon, Ca 90058	Vernon	Los Angeles	CA	09
24 HOUR	121	0.32	0.247	0.202	0.139	None	2	060371405	4010 E. 26th Street, Vernon, Ca 90058	Vernon	Los Angeles	CA	09
24 HOUR	137	1.582	0.377	0.349	0.156	None	3	060371405	4010 E. 26th Street, Vernon, Ca 90058	Vernon	Los Angeles	CA	09
24 HOUR	117	0.036	0.034	0.032	0.031	None	1	060371406	Rail Road Yard Washington Blvd., Commerce, Ca 90058	Commerce	Los Angeles	CA	09
24 HOUR	57	0.026	0.021	0.013	0.012	None	1	060371602	4144 San Gabriel River Pkwy, Pico Rivera	Pico Rivera	Los Angeles	CA	09
24 HOUR	44	0.01	0.009	0.008	0.008	None	2	060374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles	CA	09

http://www.epa.gov/oaqps001/greenbk/ancl3.html
Last updated on Wednesday, July 02, 2014

Green Book

Criteria Pollutant Nonattainment Summary Report

As of July 02, 2014

View Notes

Mouse over the No. Ctys to see the area name; click on them to see the associated counties. Population in 1000's. [Split] in No. Ctys column explained here.
The NO_2 nonattainment area became a maintenance area on September 22, 1998.
All 1-hour Ozone areas were revoked as of June 15, 2005.
All Carbon Monoxide areas were redesignated to maintenance areas as of September 27, 2010.

		2008 8-Hr Ozone			1997 8-Hr Ozone			2006 PM-2.5			1997 PM-2.5			PM-10			2010 SO2			1971 SO2			2008 LEAD		
State (s)	General Area Name (see footnote)	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Categ Clas
AK	Fairbanks							87	1	Mod															
AL	Troy																						2	1	NonAtt
AZ	Ajo													9	1	Mod									
AZ	Douglas/Paul Spur (Cochise County)													17	1	Mod									
AZ	Hayden/Miami													11	2	Mod	5	2	NonAtt	5	1	P			
														15	1	Mod	15	1	NonAtt						
AZ	Nogales							31	1	Mod				30	1	Mod									
AZ	Phoenix-Mesa	3,850	2	Mar	3,849	2	Mar							3,853	2	Ser									
AZ	Rillito (Pima County)													1	1	Mod									
AZ	West Central Pinal							52	1	Mod				283	1	Mod									
AZ	Yuma													101	1	Mod									
CA	Amador and Calaveras Cos (Central Mountain Cos)	46	1	Mar	84	2	Mod																		
CA	Chico	220	1	Mar	220	1	Mar	218	1	Mod															
CA	Imperial County													147	1	Ser									
		175	1	Mar	175	1	Mod	154	1	Mod															
CA	Los Angeles-South Coast Air Basin	15,719	4	Ext	15,718	4	Ext	15,716	4	Mod	15,716	4	Mod										9,437	1	NonAtt
		1	1	Ser	1	1	Sev7																		
		3	1	Mod																					
CA	Mariposa and Tuolumne Cos (Southern Mountain Cos)	18	1	Mar	74	2	Mod																		
CA	Mono County													7	1	Mod									
														0	1	Mod									
CA	Nevada Co. (Western Part)	82	1	Mar	82	1	Mod																		
CA	Owens Valley													7	1	Ser									
CA		2,241	6	Sev5	2,244	6	Sev5	2,206	5	Mod															

		2008 8-Hr Ozone			1997 8-Hr Ozone			2006 PM-2.5			1997 PM-2.5			PM-10			2010 SO2			1971 SO2			2008 LEAD		
State (s)	General Area Name (see footnote)	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Categ Clas
	Sacramento Metro																								
CA	San Diego	3,095	1	Mar																					
CA	San Francisco -Bay Area	6,973	9	Mar	6,971	9	Mar	6,971	9	Mod															
CA	San Joaquin Valley	95	1	Mar	95	1	Mod																		
		3,842	8	Ext	3,843	8	Ext	3,842	8	Mod	3,842	8	Mod	126	1	Ser									
CA	San Luis Obispo-Paso Robles	2	1	Mar																					
CA	Searles Valley													4	1	Mod									
CA	Southeast Desert Modified AQMA													258	1	Ser									
		868	2	Sev5	868	2	Sev5																		
		426	1	Sev5	425	1	Sev5							237	1	Mod									
CA	Tuscan Bluffs	0	1	Mar																					
CA	Ventura County	823	1	Ser	823	1	Ser																		
CA	Yuba City				0	1	Mar	165	2	Mod															
CO	Denver-Boulder-Greeley-Ft. Collins-Loveland Area	3,330	9	Mar	3,330	9	Mar																		
CT	Greater Connecticut	1,629	5	Mar	1,629	5	Mod																		
DC-MD-VA	Washington	5,136	15	Mar	5,136	15	Mod				5,047	14	Mod												
FL	Jacksonville																6	1	NonAtt						
FL	Tampa-St. Petersburg-Clearwater																17	1	NonAtt				4	1	NonAtt
GA	Atlanta	4,753	15	Mar							5,265	22	Mod												
GU	Piti Power Plant																			1	1	P			
GU	Tanguisson Power Plant																			1	1	P			
IA	Council Bluffs																						13	1	NonAtt
IA	Muscatine County																30	1	NonAtt						
ID	Pocatello													1	2	Mod									
ID	Shoshone County													2	1	Mod									
														10	1	Mod									
IL	Peoria																41	2	NonAtt						
IL-IN-WI	Chicago-Joliet-Napier	9,180	11	Mar													169	2	NonAtt				36	1	NonAtt
IN	Evansville																6	2	NonAtt						
IN	Indianapolis																21	1	NonAtt						
																	389	1	NonAtt						
IN	Muncie																						1	1	NonAtt
IN	Terre Haute																54	1	NonAtt						
KS	Salina																						0	1	NonAtt

		2008 8-Hr Ozone			1997 8-Hr Ozone			2006 PM-2.5			1997 PM-2.5			PM-10			2010 SO2			1971 SO2			2008 LEAD		
State (s)	General Area Name (see footnote)	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Categ Clas
KY-IN	Louisville										1,019	5	Mod				3	1	NonAtt						
LA	Baton Rouge	733	5	Mar																					
LA	New Orleans																36	1	NonAtt						
MA	Springfield (W. Mass)				824	4	Mod																		
MA-NH	Boston-Worcester-Manchester				5,723	10	Mod																		
		17	1	Mar													124	3	NonAtt						
MD	Baltimore	2,663	6	Mod	2,663	6	Ser				2,663	6	Mod												
MD-WV	Hagerstown-Martinsburg										252	2	Mod												
MI	Belding																						2	1	NonAtt
MI	Detroit-Ann Arbor																254	1	NonAtt						
MN	Minneapolis-St. Paul																						9	1	NonAtt
MO	Iron																						0	3	NonAtt
MO-IL	St. Louis																						39	1	NonAtt
		2,571	8	Mar	2,594	9 [Split]	Mod				2,573	9	Mod				62	1	NonAtt				5	1	NonAtt
MO-KS	Kansas City																57	1	NonAtt						
MT	Billings/Laurel																3	1	NonAtt	7	1	P			
MT	Butte													34	1	Mod									
MT	Columbia Falls (Flathead County)													5	1	Mod									
MT	East Helena																			3	1	P,S			
MT	Kalispell (Flathead County)													18	1	Mod									
MT	Lame Deer													1	1	Mod									
MT	Libby										9	1	Mod	3	1	Mod									
MT	Missoula													60	1	Mod									
MT	Polson (Lake County)													4	1	Mod									
MT	Ronan (Lake County)													3	1	Mod									
MT	Thompson Falls													1	1	Mod									
MT	Whitefish (Flathead County)													6	1	Mod									
NC-SC	Charlotte-Gastonia	1,901	8	Mar																					
NM	Anthony													3	1	Mod									
NV	Las Vegas													1,951	1	Ser									
NV	Reno													421	1	Ser									
NY	Albany-Schenectady-Troy				970	7	Mar																		
NY	Buffalo-Niagara Falls				1,136	2	Mod																		
NY	Essex County;				0	1	Mar																		

		2008 8-Hr Ozone			1997 8-Hr Ozone			2006 PM-2.5			1997 PM-2.5			PM-10			2010 SO2			1971 SO2			2008 LEAD		
State (s)	General Area Name (see footnote)	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Categ Clas
	Whiteface Mountain																								
NY	Jamestown	135	1	Mar	135	1	Mod																		
NY	Jefferson County				116	1	Mod																		
NY	Poughkeepsie				770	3	Mod																		
NY	Rochester				1,114	6	Mar																		
NY-NJ-CT	New York-N. New Jersey-Long Island	20,217	24	Mar	20,217	24	Mod							1,586	1	Mod									
OH	Bellefontaine																						6	1	NonAtt
OH	Cleveland-Akron-Elyria	2,882	8	Mar													230	1	NonAtt				8	1	NonAtt
OH	Columbus	1,755	6	Mar																					
OH	Delta																						3	1	NonAtt
OH-KY-IN	Cincinnati-Middletown-Wilmington	1,989	9	Mar													32	2	NonAtt						
OH-WV	Steubenville-Weirton																58	2	NonAtt						
OR	Klamath Falls							47	1	Mod															
OR	Oakridge							4	1	Mod				4	1	Mod									
PA	Clearfield and Indiana Counties																93	2	NonAtt						
PA	Harrisburg-Lebanon-Carlisle							1,072	4	Mod	637	3	Mod												
PA	Johnstown							157	2	Mod	157	2	Mod												
PA	Lancaster	519	1	Mar				519	1	Mod	519	1	Mod												
PA	Pittsburgh-New Castle							21	1	Mod	21	1	Mod				15	1	NonAtt				18	1	NonAtt
		2,356	7	Mar	2,356	7	Mod	2,143	8	Mod	2,143	8	Mod				127	1	NonAtt	5	1	P			
PA	Reading																						19	1	NonAtt
		411	1	Mar							411	1	Mod										29	1	NonAtt
PA	Warren County																18	1	NonAtt						
PA	York										435	1	Mod												
PA-DE-NJ-MD	Philadelphia-Wilmington-Trenton	7,437	16	Mar	7,797	18	Mod	5,798	9 [Split]	Mod	5,798	9 [Split]	Mod												
		197	1	Mar																					
PA-NJ	Allentown-Bethlehem-Easton	712	3	Mar				647	2	Mod										109	1	P,S			
PR	Arecibo																						32	1	NonAtt
RI	Providence (all of RI)				1,053	5	Mod																		
TN	Johnson City-Kingsport-Bristol																27	1	NonAtt				2	1	NonAtt
TN	Knoxville	573	3	Mar				682	5	Mod	682	5	Mod												
TN	Memphis	1,127	3	Mar																					
TN-GA-AL	Chattanooga										471	4	Mod												
TX		6,280	10	Mod	6,221	9	Ser																4	1	NonAtt

		2008 8-Hr Ozone			1997 8-Hr Ozone			2006 PM-2.5			1997 PM-2.5			PM-10			2010 SO2			1971 SO2			2008 LEAD		
State (s)	General Area Name (see footnote)	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Category/ Class	2010 Pop.	No. Ctys	Categ Clas
	Dallas-Fort Worth																								
TX	El Paso													649	1	Mod									
TX	Houston-Galveston-Brazoria	5,892	8	Mar	5,892	8	Sev5																		
UT	Ogden													83	1	Mod									
UT	Provo							518	1	Mod				517	1	Mod									
UT	Salt Lake City							1,665	5	Mod				1,030	1	Mod				1,030	1	P,S			
UT	Tooele County																			58	1	P,S			
UT-ID	Logan							125	2	Mod															
WA	Seattle-Tacoma							540	1	Mod															
WI	Rhinelander																18	1	NonAtt						
WI	Sheboygan	116	1	Mar	116	1	Mod																		
WV-OH	Parkersburg-Marietta																4	2	NonAtt						
WV-OH	Wheeling																20	1	NonAtt						
WY	Sheridan													17	1	Mod									
WY	Upper Green River Basin	11	3	Mar																					

Area Name:

The "State(s) Area Name" column contains a common or general name for the nonattainment areas on the row, but may not reflect the exact name of any area on the row. This column cannot be exact since the nonattainment area for one pollutant may not contain the same counties, cities, or states as the nonattainment area for another pollutant on the same row. to see the area name or click on them to see the associated counties. The abbreviations listed in the "State(s)" column reflect all states identified in row. However, some states on a row may be nonattainment for some pollutants and not for others in the general area.

Split Area:

'Split' in the No. Ctys column indicates that the multi-state area has states that have been redesignated but the area does not become a maintenance area until all states in the area are redesignated. The whole area population is displayed in this report. Clicking on a "Split" No. Ctys will display information for the state(s) that have not been redesignated.

Go Top

LOS ANGELES CIVIC CENTE, CALIFORNIA

Period of Record General Climate Summary - Precipitation

Station:(045115) LOS ANGELES CIVIC CENTE														
From Year=1906 To Year=2012														
	Precipitation											Total Snowfall		
	Mean	High	Year	Low	Year	1 Day Max.		>= 0.01 in.	>= 0.10 in.	>= 0.50 in.	>= 1.00 in.	Mean	High	Year
	in.	in.	-	in.	-	in.	dd/yyyy or yyyymmdd	# Days	# Days	# Days	# Days	in.	in.	-
January	3.20	14.94	1969	0.00	1948	5.71	26/1956	6	4	2	1	0.0	0.3	1949
February	3.38	13.68	1998	0.00	1912	4.80	24/1913	6	5	2	1	0.0	0.0	1949
March	2.40	8.37	1983	0.00	1931	5.88	02/1938	6	4	2	1	0.0	0.0	1949
April	1.01	7.53	1926	0.00	1909	2.74	05/1926	3	2	1	0	0.0	0.2	1950
May	0.25	3.57	1921	0.00	1923	2.02	08/1977	2	1	0	0	0.0	0.0	1949
June	0.06	0.98	1999	0.00	1908	0.76	05/1993	1	0	0	0	0.0	0.0	1913
July	0.01	0.18	1986	0.00	1907	0.60	25/1906	0	0	0	0	0.0	0.0	1948
August	0.05	2.26	1977	0.00	1907	2.06	17/1977	0	0	0	0	0.0	0.0	1948
September	0.27	5.67	1939	0.00	1907	3.96	25/1939	1	0	0	0	0.0	0.0	1948
October	0.48	4.56	2004	0.00	1913	1.72	17/1934	2	1	0	0	0.0	0.0	1948
November	1.25	9.68	1965	0.00	1907	3.85	07/1966	3	2	1	0	0.0	0.0	1948
December	2.41	10.23	2010	0.00	1912	5.55	28/2004	5	4	2	1	0.0	0.0	1948
Annual	14.77	34.04	1983	3.85	1953	5.88	19380302	36	23	10	4	0.0	0.3	1949
Winter	8.99	29.11	2005	1.19	1924	5.71	19560126	18	13	6	3	0.0	0.3	1949
Spring	3.66	13.89	1983	0.00	1997	5.88	19380302	11	7	2	1	0.0	0.2	1950
Summer	0.12	2.26	1977	0.00	1912	2.06	19770817	1	0	0	0	0.0	0.0	1949
Fall	2.00	11.48	1965	0.00	1980	3.96	19390925	6	4	1	0	0.0	0.0	1948

Table updated on Oct 31, 2012
For monthly and annual means, thresholds, and sums:
Months with 5 or more missing days are not considered
Years with 1 or more missing months are not considered
Seasons are climatological not calendar seasons
Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May
Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

Western Regional Climate Center, wrcc@dri.edu

LOS ANGELES CIVIC CENTE, CALIFORNIA

Period of Record General Climate Summary - Temperature

Station:(045115) LOS ANGELES CIVIC CENTE															
From Year=1906 To Year=2012															
	Monthly Averages			Daily Extremes				Monthly Extremes				Max. Temp.		Min. Temp.	
	Max.	Min.	Mean	High	Date	Low	Date	Highest Mean	Year	Lowest Mean	Year	>= 90 F	<= 32 F	<= 32 F	<= 0 F
	F	F	F	F	dd/yyyy or yyyymmdd	F	dd/yyyy or yyyymmdd	F	-	F	-	# Days	# Days	# Days	# Days
January	66.4	48.3	57.3	95	18/1971	28	07/1913	65.9	1986	46.9	1949	0.1	0.0	0.1	0.0
February	67.3	49.5	58.4	95	20/1995	25	19/1911	65.3	1995	51.9	1911	0.1	0.0	0.0	0.0
March	68.8	51.1	60.0	98	26/1988	35	04/1976	66.0	1931	54.6	1945	0.2	0.0	0.0	0.0
April	71.0	53.5	62.2	106	06/1989	39	07/1975	69.6	1992	56.0	1975	0.8	0.0	0.0	0.0
May	72.9	56.5	64.7	102	16/1967	40	12/1933	72.6	1997	58.7	1917	0.8	0.0	0.0	0.0
June	76.9	59.7	68.3	112	26/1990	49	01/1917	77.4	1981	63.4	1944	1.2	0.0	0.0	0.0
July	82.3	63.2	72.7	107	01/1985	53	17/1907	79.9	2006	66.6	1944	3.1	0.0	0.0	0.0
August	83.1	63.8	73.4	105	06/1983	52	25/1909	80.8	1983	68.1	1914	4.1	0.0	0.0	0.0
September	81.9	62.6	72.3	113	27/2010	50	22/1921	81.3	1984	64.6	1933	4.9	0.0	0.0	0.0
October	77.6	58.7	68.1	108	03/1987	41	30/1971	74.2	1983	59.7	1916	3.1	0.0	0.0	0.0
November	72.8	53.3	63.0	100	01/1966	37	28/1919	68.9	1932	57.9	1906	0.8	0.0	0.0	0.0
December	67.4	49.1	58.2	92	08/1938	30	08/1978	64.2	1939	52.6	1916	0.0	0.0	0.0	0.0
Annual	74.0	55.8	64.9	113	20100927	25	19110219	68.9	1981	60.9	1916	19.5	0.0	0.1	0.0
Winter	67.0	49.0	58.0	95	19710118	25	19110219	63.3	1986	51.0	1949	0.2	0.0	0.1	0.0
Spring	70.9	53.7	62.3	106	19890406	35	19760304	67.8	1997	57.8	1917	1.9	0.0	0.0	0.0
Summer	80.8	62.2	71.5	112	19900626	49	19170601	77.6	1981	66.4	1916	8.5	0.0	0.0	0.0
Fall	77.4	58.2	67.8	113	20100927	37	19191128	72.2	1983	61.4	1916	8.8	0.0	0.0	0.0

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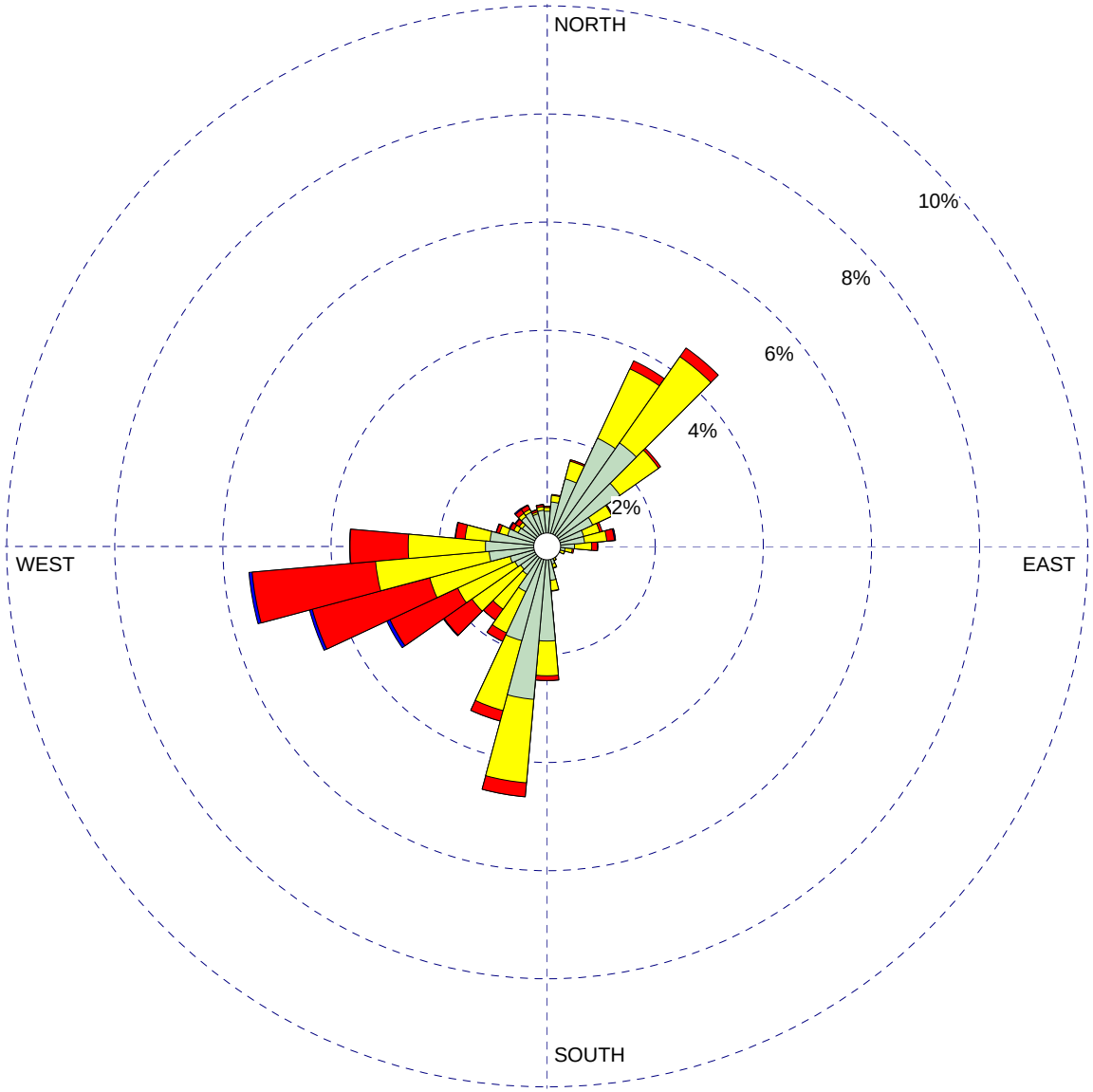
WIND ROSE PLOT:

Central LA Wind Rose

DISPLAY:

Wind Speed
Direction (blowing from)

COMMENTS:



DATA PERIOD:

Start Date: 1/1/2006 - 00:00
End Date: 12/31/2009 - 23:00

TOTAL COUNT:	CALM WINDS:
66206 hrs.	**0.32%**

AVG. WIND SPEED:

2.23 m/s

COMPANY NAME:

MODELER:

DATE:

6/13/2014

PROJECT NO.: